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SHELDON'S

PRIMARY

EXAMPLES

IN

Arithmetic

Sheldon & Company.

NEW YORK & CHICAGO.

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SHELDON'S  
°  
PRIMARY EXAMPLES  
IN  
ARITHMETIC.

BY  
M. FRENCH SWARTHOUT  
AND  
M. A. FARNHAM.

SHELDON AND COMPANY,  
NEW YORK AND CHICAGO.

Edgewood T 118.86.779

1st.

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## PREFACE.

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WE are convinced that a prepared graded system of examples, is a great advantage to pupils as well as a source of economy. The ordinary text-books do not give a sufficient number of problems for practice under the various divisions of the subject. There is a demand for examples for home study; and the time heretofore occupied in copying on, and from the board is saved, as well as the expense incurred in the purchase of paper, which is a large item for a year.

This book commences at the foundation, introducing new subjects and new points as rapidly as the pupil's mind is prepared for them. As the aim of this book is simply to present practical work, and to supply problems for practice, many explanations must be given by the teacher. It may also be found necessary for the teacher to use the black-board for illustration of principles.

As the work advances, a review of some previous work is kept up, thoroughly to impress upon the mind the principles involved.

A new subject heads a lesson, consisting of two or three examples; the remaining part of the lesson being a review.

## NOTE.

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**A**N easy method of teaching Notation, is to impress upon the minds of the children, that the name of the first period is Units, and the name of the second, Thousands; and that numbers must be placed where their names indicate. For instance, 24000. Write the 24, as you would for the first period, but ask, where does it belong? What is its name? Then write it in the second period, then place zeros where the orders are omitted.

Numeration may be taught from the board, in the same manner, reading each period as if it were a single number, giving it its name. To illustrate, cover units' period while reading thousands', to show that it is read as a single number.

## PLAN OF THE WORK.

---

**A** BRIEF review in the development of numbers from 1 to 10, followed by an exhaustive treatment of the numbers included in the second year's work, arranged as follows :

### LESSON

I. ....

II. .... { Additions to 10.  
Subtraction—figures  
in the subtrahend  
less than the cor-  
responding figures  
in the minuend.  
Multiplication by 2  
of 0, 1, 2, 3, 4,  
and 5.

III. .... 2 times 5.

IV. .... 2 times 6.

VIII. .... 2 times 7.

IX. .... { 10 minus 1.  
One figure in the sub-  
trahend less than  
the corresponding  
figure in the minu-  
end.

X. .... { 10 minus 2.  
2 times 8.

XI. .... { 10 minus 3.  
2 times 9.

### LESSON

XII. .... 10 minus 4.

XIII. .... 10 minus 5.

XIV. .... 10 minus 6.

XV. .... { Additions to 20.  
10 minus 7.

XVI. .... 10 minus 8.

XVII. .... 10 minus 9.

XVIII. .... { 11 minus 2.  
3 times 4.

XIX. .... 11 minus 3.

XX. .... { 11 minus 4.  
3 times 5.

XXI. .... { 11 minus 5.  
Two figures in sub-  
trahend greater, etc.

XXII. .... 11 minus 6.

XXIII. .... 11 minus 7.

XXIV. .... { 11 minus 8.  
3 times 6.

XXV. .... 11 minus 9.

XXVI. .... { 12 minus 3.  
Add., more than 20.

## LESSON

XXVII....	{ 12 minus 4. 3 times 7.
XXVIII....	12 minus 5.
XXIX....	{ 12 minus 6. 3 times 8.
XXX.....	12 minus 7.
XXXI....	{ 12 minus 8. 3 times 9.
XXXII....	12 minus 9.
XXXIII....	13 minus 4.
XXXIV....	13 minus 5.
XXXVI....	13 minus 6.
XXXVII....	13 minus 7.
XXXVIII....	13 minus 8.
XXXIX....	{ 13 minus 9. 4 times 3.
XL.....	{ 14 minus 5. 4 times 4.
XLII.....	{ 14 minus 6. 4 times 5. Concrete work intro- duced.
XLIII....	14 minus 7.
XLIV....	4 times 6.
XLV.....	14 minus 8.
XLVI....	4 times 7.
XLVII....	14 minus 9.
XLVIII....	4 times 8.
XLIX....	15 minus 6.
L.....	4 times 9.

## LESSON

LII.....	15 minus 7.
LIII.....	Multiplication by 5.
LIV.....	5 times 5.
LV.....	5 times 6.
LVI.....	{ 15 minus 8. 5 times 7.
LVII.....	5 times 8.
LVIII.....	5 times 9.
LIX.....	15 minus 9.
LX.....	{ Division by 2, with no remainder.
LXIII....	16 minus 7.
LXV.....	16 minus 8.
LXVI....	{ One division with remainder.
LXVII....	16 minus 9.
LXVIII....	17 minus 8.
LXIX....	17 minus 9.
LXXII....	18 minus 9.
LXXIII....	Division by 3.
LXXXVII..	Division by 4.
XC.....	Proof of Subtraction.
XCIV.....	To find $\frac{1}{2}$ .
XCVII....	{ To find $\frac{1}{2}$ . Division by 5.
CII.....	To find $\frac{1}{2}$ .
CVIII....	To find $\frac{1}{2}$ .
CXX.....	Brackets introduced.
CXXXI....	Liquid Measure.
CXXXVI....	Long Measure.

# SHELDON'S

## GRADED EXAMPLES IN PRIMARY ARITHMETIC.

### SECOND YEAR.

#### LESSON. I.

NOTES.—1. Each lesson should be carefully examined by the teacher, before assigning the work for practice, and all new points illustrated on the board, or fully explained in the conversational exercises of the day.

2. A simple way to teach children to carry, is to write the left-hand figure above the next column, and consider it as belonging to that column; illustrate at the board.

3. An easy way to teach children to subtract, is by the process of Addition. As 34—5. 5 and 9 are 14. Write the 9 and carry 1 to the next order of the subtrahend; then 1 and 2 are 3.

$$\begin{array}{r} 1. \quad 13 \\ 10 \\ 32 \\ 34 \\ \underline{21} \end{array}$$

$$\begin{array}{r} 2. \quad 4372 \\ -1212 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 4123 \\ \cdot \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 3956 \\ -2134 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 1043 \\ \times 2 \\ \hline \end{array}$$

#### LESSON II.

$$\begin{array}{r} 1. \quad 11 \\ 12 \\ 21 \\ 14 \\ \underline{53} \end{array}$$

$$\begin{array}{r} 2. \quad 8354 \\ -1343 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 3240 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 6073 \\ -5021 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 4013 \\ \times 2 \\ \hline \end{array}$$

## LESSON III.

1.	10	2.	4816	4.	5314
	13		<u>-2410</u>		<u>× 2</u>
	21				
	55	3.	•9618	5.	5432
	<u>22</u>		<u>-5203</u>		<u>× 2</u>

## LESSON IV.

1.	12	2.	7598	4.	6342
	21		<u>-4065</u>		<u>× 2</u>
	14				
	23	3.	2098	5.	6430
	<u>52</u>		<u>-1076</u>		<u>× 2</u>

## LESSON V.

1.	21	2.	8927	4.	5143
	12		<u>-2405</u>		<u>× 2</u>
	21				
	37	3.	7496	5.	6403
	<u>42</u>		<u>-6431</u>		<u>× 2</u>

## LESSON VI.

1.	132	2.	6397	4.	4531
	102		<u>-6027</u>		<u>× 2</u>
	211				
	545	3.	9745	5.	3245
	<u>354</u>		<u>-8505</u>		<u>× 2</u>

## LESSON VII.

$$\begin{array}{r}
 1. \quad 322 \\
 101 \\
 613 \\
 224 \\
 193 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 2. \quad 9868 \\
 -4830 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 4. \quad 5362 \\
 \times 2 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 3. \quad 7685 \\
 -1642 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 5. \quad 4260 \\
 \times 2 \\
 \hline
 \end{array}$$

## LESSON VIII.

$$\begin{array}{r}
 1. \quad 110 \\
 121 \\
 112 \\
 752 \\
 348 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 2. \quad 5987 \\
 -1053 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 4. \quad 6437 \\
 \times 2 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 3. \quad 9408 \\
 -5303 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 5. \quad 5027 \\
 \times 2 \\
 \hline
 \end{array}$$

## LESSON IX.

$$\begin{array}{r}
 1. \quad 111 \\
 222 \\
 101 \\
 728 \\
 272 \\
 220 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 2. \quad 4703 \\
 -2412 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 4. \quad 4703 \\
 \times 2 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 3. \quad 6081 \\
 -3150 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 5. \quad 5472 \\
 \times 2 \\
 \hline
 \end{array}$$

## LESSON X.

$$\begin{array}{r}
 1. \quad 211 \\
 121 \\
 412 \\
 686 \\
 102 \\
 125 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 2. \quad 9410 \\
 -4102 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 4. \quad 6084 \\
 \times 2 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 3. \quad 8504 \\
 -1422 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 5. \quad 7138 \\
 \times 2 \\
 \hline
 \end{array}$$

## LESSON XI.

$$\begin{array}{r}
 1. \quad 211 \\
 112 \\
 201 \\
 198 \\
 432 \\
 \hline
 512
 \end{array}$$

$$\begin{array}{r}
 2. \quad 9410 \\
 \hline
 -4103
 \end{array}$$

$$\begin{array}{r}
 4. \quad 8493 \\
 \hline
 \times 2
 \end{array}$$

$$\begin{array}{r}
 3. \quad 8540 \\
 \hline
 -1423
 \end{array}$$

$$\begin{array}{r}
 5. \quad 5129 \\
 \hline
 \times 2
 \end{array}$$

## LESSON XII.

$$\begin{array}{r}
 1. \quad 112 \\
 220 \\
 165 \\
 124 \\
 \hline
 812
 \end{array}$$

$$\begin{array}{r}
 2. \quad 7046 \\
 \hline
 -1435
 \end{array}$$

$$\begin{array}{r}
 4. \quad 4846 \\
 \hline
 \times 2
 \end{array}$$

$$\begin{array}{r}
 3. \quad 4370 \\
 \hline
 -1254
 \end{array}$$

$$\begin{array}{r}
 5. \quad 3527 \\
 \hline
 \times 2
 \end{array}$$

## LESSON XIII.

$$\begin{array}{r}
 1. \quad 111 \\
 211 \\
 150 \\
 419 \\
 123 \\
 \hline
 741
 \end{array}$$

$$\begin{array}{r}
 2. \quad 4980 \\
 \hline
 -1645
 \end{array}$$

$$\begin{array}{r}
 4. \quad 3847 \\
 \hline
 \times 2
 \end{array}$$

$$\begin{array}{r}
 3. \quad 9017 \\
 \hline
 -6514
 \end{array}$$

$$\begin{array}{r}
 5. \quad 2906 \\
 \hline
 \times 2
 \end{array}$$

## LESSON XIV.

$$\begin{array}{r}
 1. \quad 101 \\
 220 \\
 301 \\
 168 \\
 412 \\
 \hline
 443
 \end{array}$$

$$\begin{array}{r}
 2. \quad 7061 \\
 \hline
 -1641
 \end{array}$$

$$\begin{array}{r}
 4. \quad 5608 \\
 \hline
 \times 2
 \end{array}$$

$$\begin{array}{r}
 3. \quad 1380 \\
 \hline
 -1146
 \end{array}$$

$$\begin{array}{r}
 5. \quad 6079 \\
 \hline
 \times 2
 \end{array}$$



## LESSON XV.

$$\begin{array}{r}
 1. \quad 221 \\
 112 \\
 220 \\
 112 \\
 453 \\
 \hline
 326
 \end{array}$$

$$\begin{array}{r}
 2. \quad 8063 \\
 \hline
 -2713 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 4. \quad 1729 \\
 \hline
 \times 2 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 3. \quad 4309 \\
 \hline
 -1275 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 5. \quad 9486 \\
 \hline
 \times 2 \\
 \hline
 \end{array}$$

## LESSON XVI.

$$\begin{array}{r}
 1. \quad 123 \\
 221 \\
 413 \\
 362 \\
 \hline
 325
 \end{array}$$

$$\begin{array}{r}
 2. \quad 5038 \\
 \hline
 -3834 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 4. \quad 4783 \\
 \hline
 \times 2 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 3. \quad 6930 \\
 \hline
 -3528 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 5. \quad 9546 \\
 \hline
 \times 2 \\
 \hline
 \end{array}$$

## LESSON XVII.

$$\begin{array}{r}
 1. \quad 101 \\
 125 \\
 312 \\
 110 \\
 533 \\
 \hline
 364
 \end{array}$$

$$\begin{array}{r}
 2. \quad 4096 \\
 \hline
 -2946 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 4. \quad 4768 \\
 \hline
 \times 2 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 3. \quad 8504 \\
 \hline
 -3493 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 5. \quad 9586 \\
 \hline
 \times 2 \\
 \hline
 \end{array}$$

## LESSON XVIII.

$$\begin{array}{r}
 1. \quad 112 \\
 130 \\
 313 \\
 121 \\
 113 \\
 \hline
 746
 \end{array}$$

$$\begin{array}{r}
 2. \quad 6041 \\
 \hline
 -4032 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 4. \quad 4132 \\
 \hline
 \times 3 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 3. \quad 7418 \\
 \hline
 -1125 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 5. \quad 3214 \\
 \hline
 \times 3 \\
 \hline
 \end{array}$$

## LESSON XIX.

1.	123	2.	4712	4.	1432
	131		<u>-4530</u>		<u>× 3</u>
	212				
	101	3.	5461	5.	2430
	350		<u>-4053</u>		<u>× 3</u>
	<u>628</u>				

## LESSON XX.

1.	143	2.	6381	4.	5341
	112		<u>-1354</u>		<u>× 3</u>
	243				
	101	3.	4061	5.	9684
	854		<u>-2054</u>		<u>× 2</u>
	<u>547</u>				

## LESSON XXI.

1.	123	2.	3091	4.	1405
	221		<u>-1645</u>		<u>× 3</u>
	114				
	242	3.	5180	5.	4352
	723		<u>-2535</u>		<u>× 3</u>
	<u>586</u>				

## LESSON XXII.

1.	132	2.	7130	4.	4153
	121		<u>-2618</u>		<u>× 3</u>
	411				
	242	3.	9071	5.	7538
	327		<u>-2906</u>		<u>× 2</u>
	<u>685</u>				

## LESSON XXIII.

$$\begin{array}{r}
 1. \quad 213 \\
 222 \\
 131 \\
 519 \\
 383 \\
 \hline
 732
 \end{array}$$

$$\begin{array}{r}
 2. \quad 5031 \\
 \hline
 -3427
 \end{array}$$

$$\begin{array}{r}
 3. \quad 2180 \\
 \hline
 -1767
 \end{array}$$

$$\begin{array}{r}
 4. \quad 3425 \\
 \hline
 \times 3
 \end{array}$$

$$\begin{array}{r}
 5. \quad 4053 \\
 \hline
 \times 3
 \end{array}$$

## LESSON XXIV.

$$\begin{array}{r}
 1. \quad 114 \\
 220 \\
 151 \\
 712 \\
 447 \\
 \hline
 476
 \end{array}$$

$$\begin{array}{r}
 2. \quad 3041 \\
 \hline
 -1228
 \end{array}$$

$$\begin{array}{r}
 3. \quad 7190 \\
 \hline
 -3843
 \end{array}$$

$$\begin{array}{r}
 4. \quad 6243 \\
 \hline
 \times 3
 \end{array}$$

$$\begin{array}{r}
 5. \quad 4629 \\
 \hline
 \times 2
 \end{array}$$

## LESSON XXV.

$$\begin{array}{r}
 1. \quad 211 \\
 243 \\
 402 \\
 117 \\
 964 \\
 \hline
 153
 \end{array}$$

$$\begin{array}{r}
 2. \quad 8041 \\
 \hline
 -6139
 \end{array}$$

$$\begin{array}{r}
 3. \quad 6181 \\
 \hline
 -1249
 \end{array}$$

$$\begin{array}{r}
 4. \quad 5306 \\
 \hline
 \times 3
 \end{array}$$

$$\begin{array}{r}
 5. \quad 4526 \\
 \hline
 \times 3
 \end{array}$$

## LESSON XXVI.

$$\begin{array}{r}
 1. \quad 143 \\
 221 \\
 312 \\
 435 \\
 147 \\
 \hline
 831
 \end{array}$$

$$\begin{array}{r}
 2. \quad 5162 \\
 \hline
 -1343
 \end{array}$$

$$\begin{array}{r}
 3. \quad 6271 \\
 \hline
 -3364
 \end{array}$$

$$\begin{array}{r}
 4. \quad 6054 \\
 \hline
 \times 3
 \end{array}$$

$$\begin{array}{r}
 5. \quad 9486 \\
 \hline
 \times 2
 \end{array}$$

## LESSON XXVII.

1.	212	2.	2162	4.	3627
	344		<u>-1544</u>		<u>× 3</u>
	430				
	523	3.	3271	5.	7241
	414		<u>-2446</u>		<u>× 3</u>
	<u>275</u>				

## LESSON XXVIII.

1.	342	2.	4162	4.	4175
	202		<u>-1755</u>		<u>× 3</u>
	123				
	214	3.	6271	5.	3704
	481		<u>-3548</u>		<u>× 3</u>
	<u>946</u>				

## LESSON XXIX.

1.	102	2.	2241	4.	8364
	225		<u>-1639</u>		<u>× 3</u>
	430				
	352	3.	3266	5.	2807
	544		<u>-1646</u>		<u>× 3</u>
	<u>737</u>				

## LESSON XXX.

1.	312	2.	4272	4.	5847
	134		<u>-3743</u>		<u>× 3</u>
	203				
	354	3.	9162	5.	9486
	665		<u>-3857</u>		<u>× 2</u>
	<u>722</u>				

## LESSON XXXI.

$$\begin{array}{r}
 1. \quad 131 \\
 223 \\
 332 \\
 116 \\
 423 \\
 \hline
 787
 \end{array}$$

$$\begin{array}{r}
 2. \quad 9082 \\
 \hline
 -4078
 \end{array}$$

$$\begin{array}{r}
 4. \quad 7385 \\
 \hline
 \times 3
 \end{array}$$

$$\begin{array}{r}
 3. \quad 4271 \\
 \hline
 -3846
 \end{array}$$

$$\begin{array}{r}
 5. \quad 9076 \\
 \hline
 \times 3
 \end{array}$$

## LESSON XXXII.

$$\begin{array}{r}
 1. \quad 231 \\
 242 \\
 614 \\
 113 \\
 342 \\
 \hline
 469
 \end{array}$$

$$\begin{array}{r}
 2. \quad 7291 \\
 \hline
 -4967
 \end{array}$$

$$\begin{array}{r}
 4. \quad 4195 \\
 \hline
 \times 3
 \end{array}$$

$$\begin{array}{r}
 3. \quad 5162 \\
 \hline
 -3459
 \end{array}$$

$$\begin{array}{r}
 5. \quad 8319 \\
 \hline
 \times 3
 \end{array}$$

## LESSON XXXIII.

$$\begin{array}{r}
 1. \quad 232 \\
 424 \\
 210 \\
 323 \\
 475 \\
 \hline
 537
 \end{array}$$

$$\begin{array}{r}
 2. \quad 5273 \\
 \hline
 -1564
 \end{array}$$

$$\begin{array}{r}
 4. \quad 6429 \\
 \hline
 \times 3
 \end{array}$$

$$\begin{array}{r}
 3. \quad 3362 \\
 \hline
 -1406
 \end{array}$$

$$\begin{array}{r}
 5. \quad 1839 \\
 \hline
 \times 3
 \end{array}$$

## LESSON XXXIV.

$$\begin{array}{r}
 1. \quad 214 \\
 134 \\
 544 \\
 212 \\
 433 \\
 \hline
 765
 \end{array}$$

$$\begin{array}{r}
 2. \quad 7253 \\
 \hline
 -4434
 \end{array}$$

$$\begin{array}{r}
 4. \quad 7295 \\
 \hline
 \times 3
 \end{array}$$

$$\begin{array}{r}
 3. \quad 5363 \\
 \hline
 -2445
 \end{array}$$

$$\begin{array}{r}
 5. \quad 7986 \\
 \hline
 \times 2
 \end{array}$$

## LESSON XXXV.

1.	311	2.	3732	4.	7468
	423		<u>-1452</u>		<u>× 3</u>
	333				
	254	3.	6303	5.	3925
	427		<u>-1215</u>		<u>× 3</u>
	<u>286</u>				

## LESSON XXXVI.

1.	231	2.	4383	4.	4938
	322		<u>-2456</u>		<u>× 3</u>
	245				
	433	3.	5343	5.	2756
	323		<u>-1625</u>		<u>× 3</u>
	<u>758</u>				

## LESSON XXXVII.

1.	113	2.	2343	4.	6849
	221		<u>-1637</u>		<u>× 3</u>
	553				
	336	3.	8363	5.	9375
	314		<u>-4716</u>		<u>× 3</u>
	<u>667</u>				

## LESSON XXXVIII.

1.	132	2.	5273	4.	8047
	332		<u>-1928</u>		<u>× 3</u>
	443				
	414	3.	4362	5.	9486
	325		<u>-3847</u>		<u>× 3</u>
	<u>578</u>				

## LESSON XXXIX.

$$\begin{array}{r}
 1. \quad 133 \\
 345 \\
 441 \\
 616 \\
 363 \\
 \hline
 234
 \end{array}$$

$$\begin{array}{r}
 2. \quad 4393 \\
 \hline
 -1769
 \end{array}$$

$$\begin{array}{r}
 4. \quad 3201 \\
 \hline
 \times 4
 \end{array}$$

$$\begin{array}{r}
 3. \quad 5263 \\
 \hline
 -3759
 \end{array}$$

$$\begin{array}{r}
 5. \quad 2310 \\
 \hline
 \times 4
 \end{array}$$

## LESSON XL.

$$\begin{array}{r}
 1. \quad 233 \\
 322 \\
 455 \\
 541 \\
 478 \\
 \hline
 402
 \end{array}$$

$$\begin{array}{r}
 2. \quad 7364 \\
 \hline
 -4955
 \end{array}$$

$$\begin{array}{r}
 4. \quad 1032 \\
 \hline
 \times 4
 \end{array}$$

$$\begin{array}{r}
 3. \quad 4364 \\
 \hline
 -1835
 \end{array}$$

$$\begin{array}{r}
 5. \quad 4213 \\
 \hline
 \times 4
 \end{array}$$

## LESSON XLI.

$$\begin{array}{r}
 1. \quad 322 \\
 122 \\
 514 \\
 347 \\
 456 \\
 \hline
 671
 \end{array}$$

$$\begin{array}{r}
 2. \quad 2463 \\
 \hline
 -1547
 \end{array}$$

$$\begin{array}{r}
 4. \quad 2431 \\
 \hline
 \times 4
 \end{array}$$

$$\begin{array}{r}
 3. \quad 6493 \\
 \hline
 -2508
 \end{array}$$

$$\begin{array}{r}
 5. \quad 3423 \\
 \hline
 \times 4
 \end{array}$$

## LESSON XLII.

$$\begin{array}{r}
 1. \quad 312 \\
 453 \\
 634 \\
 365 \\
 842 \\
 \hline
 369
 \end{array}$$

$$\begin{array}{r}
 2. \quad 3482 \\
 \hline
 -1667
 \end{array}$$

$$\begin{array}{r}
 3. \quad 9314 \\
 \hline
 -1806
 \end{array}$$

$$\begin{array}{r}
 4. \quad 5341 \\
 \hline
 \times 4
 \end{array}$$

5. Mary wrote 37 words and Emma, 58 words. How many words did both write?

## LESSON XLIII.

- |    |            |    |              |    |              |    |            |
|----|------------|----|--------------|----|--------------|----|------------|
| 1. | 461        | 2. | 4604         | 3. | 3046         | 4. | 3450       |
|    | 254        |    | <u>—3306</u> |    | <u>—1076</u> |    | <u>× 4</u> |
|    | 723        |    |              |    |              |    |            |
|    | 367        |    |              |    |              |    |            |
|    | 442        |    |              |    |              |    |            |
|    | <u>418</u> |    |              |    |              |    |            |

5. Charlie earned 153 cents, and James, 176 cents. How many cents did both earn?

## LESSON XLIV.

- |    |            |    |              |    |              |    |            |
|----|------------|----|--------------|----|--------------|----|------------|
| 1. | 110        | 2. | 8404         | 3. | 5414         | 4. | 3546       |
|    | 222        |    | <u>—7207</u> |    | <u>—4705</u> |    | <u>× 4</u> |
|    | 373        |    |              |    |              |    |            |
|    | 458        |    |              |    |              |    |            |
|    | 747        |    |              |    |              |    |            |
|    | <u>964</u> |    |              |    |              |    |            |

5. Henry sold 147 papers Monday, 98 papers Tuesday, and 87, Wednesday. How many papers did he sell in all?

## LESSON XLV.

1.  $316 + 121 + 453 + 346 + 459 + 981 =$  how many?

- |    |              |    |              |    |            |
|----|--------------|----|--------------|----|------------|
| 2. | 3049         | 3. | 8304         | 4. | 5306       |
|    | <u>—1073</u> |    | <u>—3208</u> |    | <u>× 4</u> |

5. Harry had 154 marbles, and James had 34 more than Harry. How many marbles had James?

## LESSON LXVI.

1.  $261 + 203 + 515 + 464 + 743 + 178 =$  how many?

- |    |              |    |              |    |            |
|----|--------------|----|--------------|----|------------|
| 2. | 3404         | 3. | 6403         | 4. | 7360       |
|    | <u>—3308</u> |    | <u>—5807</u> |    | <u>× 4</u> |

5. James lost 14 cents and had 37 cents left. How many cents had he at first?



## LESSON XLVII.

1.  $121 + 447 + 162 + 734 + 376 + 938 = ?$
2.  $6043 - 4093 =$  how many?
3.  $6048 - 5093 =$  how many?
4.  $5067$   
 $\times 4$
5. 37 years is 25 years less than Mr. Brown's age. How old is Mr. Brown?

## LESSON XLVIII.

1. Add 112, 266, 182, 418, 943 and 934.
2.  $7146 - 4096 =$  how many?
3.  $6454 - 3928 =$  how many?
4.  $8375$   
 $\times 4$
5. Eliza has 98 buttons, which is 27 less than her sister has. How many has her sister?

## LESSON XLIX.

1. Add 142, 314, 231, 985, 255 and 878.
2.  $6415 - 3506 =$  how many?
3.  $6524 - 4606 =$  how many?
4.  $7806$   
 $\times 4$
5. From a tub holding 112 quarts of water, 45 quarts leaked out. How many quarts remained?

## LESSON L.

1. Find the sum of 221, 123, 334, 889, 353 and 967.
2.  $8414 - 3506 = ?$
3.  $7524 - 4616 = ?$
4.  $9087$   
 $\times 4$
5. Mary counted 148 stars, which was 19 more than her sister counted. How many did her sister count?

## LESSON LI.

1. Find the sum of 563, 451, 149, 734, 234 and 875.

2.  $2584 - 1635 = ?$

4.  $5689$

3.  $4350 - 2760 = ?$

$\times 4$

5. A man sold a horse for 240 dollars, which was 57 dollars more than it cost. How much did it cost?

## LESSON LII.

1. Find the sum of 214, 349, 366, 143, 962 and 855.

2.  $3514 - 1708 = ?$

4.  $7096$

3.  $2053 - 1162 = ?$

$\times 4$

5. Helen is 14 years old. In how many years will she be 43 years old?

## LESSON LIII.

1. Add 713, 222, 138, 273, 365 and 678.

4.  $4302$

2.  $3485 - 1867 = ?$

$\times 5$

3.  $2585 - 1667 = ?$

5. A man bought 350 acres of land and sold it all but 97 acres. How many acres did he sell?

## LESSON LIV.

1.  $333 + 578 + 625 + 241 + 615 + 497 = ?$

4.  $5342$

2.  $3514 - 2707 = ?$

$\times 5$

3.  $8045 - 4637 = ?$

5. Henry raised 97 chickens and John, 114 chickens. How many more chickens did John raise than Henry?

## LESSON LV.

1. Find the sum of 121, 174, 969, 221, 758 and 856.
2.  $3574 - 2708 = ?$
3.  $8045 - 4637 = ?$
4.  $6354 \times 5 = ?$
5. A gentleman has 212 miles to travel. After traveling 75 miles, how many miles has he still to go?

## LESSON LVI.

1. Add 523, 712, 218, 395, 454 and 796.
2.  $5585 - 3768 = ?$
3.  $4560 - 3853 = ?$
4.  $7462 \times 5 = ?$
5. If a boy earn 350 cents a week, how much will he earn in 3 weeks?

## LESSON LVII.

1.  $241 + 352 + 718 + 461 + 548 + 658 = ?$
2.  $4056 - 2086 = ?$
3.  $7105 - 4008 = ?$
4.  $8467 \times 5 = ?$
5. A man saves 428 dollars each year. How much does he save in 2 years?

## LESSON LVIII.

1. What is the sum of 212, 313, 894, 312, 879 and 689?
2.  $9605 - 4409 = ?$
3.  $4056 - 3096 = ?$
4.  $9486 \times 5 = ?$
5. A bought 175 sheep, and B 4 times as many. How many sheep did B buy?



3.  $768 \text{ times } 3 \text{ times } 5 = \text{how many?}$
4.  $1200 - 164 \text{ four times} = \text{how many?}$
5. William picked up 375 apples under one tree, 583 under another and 897 under another. How many did he pick up in all?

## LESSON LXIII.

1.  $1094 + 6431 + 5763 + 145 + 676 + 101 = \text{how many?}$
2.  $4082 \div 2 = \text{how many?}$   $6204 \div 2 = \text{how many?}$
3.  $6096 - 5157 = \text{how many?}$
4. Multiply 9387 by 2.
5. A man traveled 287 miles by boat, and four times as far by cars. How far did he travel by cars?

## LESSON LXIV.

1.  $4000 - 394 \text{ two times} = \text{how many?}$
2.  $4280 \div 2 = \text{how many?}$   $4213 \times 5 = \text{how many?}$
3. 6847 multiplied by 4 = how many?
4.  $847 \times 2 \times 3 = \text{how many?}$
5. John had 75 cents, which was 17 cents more than his brother had. How many cents had his brother?

## LESSON LXV.

1.  $6420 + 1328 + 2654 + 3852 + 1046 + 1369 = ?$
2.  $8642 \div 2 = \text{how many?}$   $8006 \div 2 = \text{how many?}$
3. Take 458 from 2006 three times.
4. 5 times 9387 = how many? 4786 multiplied by 4 = ?
5. How many are 3 times 4398 books? How many are 4 times 6098 apples?

## LESSON LXVI.

1. Add 4 thousand 685, 3 thousand 276, 5 thousand 409, 2 thousand 354, 1 thousand 538 and 9 thousand 271.
2. Divide 5840 by 2. Divide 8746 by 2.
3.  $10000 - 748$  four times = ?
4. 5 times 4967 cents = how many cents?  
How many are 4 times 5243 ?
5. Charles had 123 nuts and James had three times as many. How many had James ?

## LESSON LXVII.

1. Multiply 175 by 5 three times.
2.  $6387 \times 4 =$  how many? 5 times 5403 pictures are how many pictures?
3.  $6304 \div 2 =$  how many?
4. Take 6294 from 8367.
5. Harry picked 45 quarts of berries, William 51 quarts, and Ralph 68 quarts. How many did they all pick ?

## LESSON LXVIII.

1. Add 4628, 1432, 3741, 5490, 8375, 2476.
2.  $4108 \div 2 =$  how many?  $7206 \div 2 =$  how many?
3.  $809 \times 4 \times 3 =$  how many?  $6435 \times 4 =$  how many?
4. From 2507 take 38 five times.
5. If Henry had 45 marbles and should lose 17, how many would he have left?

## LESSON LXIX.

1. What is the sum of 4763, 5842, 6379, 8250, 1437 and 1188?
2. Divide 9436 by 2. Divide 6120 by 2.
3. Take 899 from 1007.
4. 4386 multiplied by 3 = how many?  $3642 \times 4 = ?$
5. A owned 96 cows and B owned 4 times as many.  
How many cows did B own?

## LESSON LXX.

1. Divide 4908 by 2.  $3816 \div 2 =$  how many?
2. Multiply 4938 by 3. Multiply 7365 by 5.
3. How many are 4 times 6847 bricks?
4.  $1000 - 70$  four times = ?
5. There were 89 apples in one basket, and 25 less in a smaller one. How many apples were there in the smaller basket?

## LESSON LXXI.

1. 5 times 8679 = how many?
2. Divide 5498 by 2. Divide 6354 by 2.
3.  $467 \times 4 \times 2 =$  how many?
4.  $6003 - 1240 - 642 - 12 =$  how many?
5. Ralph has 648 pennies, and George has twice as many.  
How many pennies has George?

## LESSON LXXII.

1. Add 6 thousand 3, 5 thousand 85, 4 thousand 201, 3 thousand 594, 7 thousand 60 and 9 thousand 706.
2. Divide 45890 by 2.  $4630 \div 2 = ?$
3. 5 times 4789 = how many?
4. From 3080 take 1295 two times.
5. How many are 4 times 2480 trees?

## LESSON LXXIII.

1.  $6423 \div 3 =$  how many?  $4754$  multiplied by  $5 = ?$
2.  $869$  multiplied by  $3$  multiplied by  $5 = ?$
3.  $7496$  multiplied by  $4 =$  how many?
4. From  $6348$  take  $2743$  two times.
5. On one peach tree there were  $283$  peaches, on another  $340$  and on the third  $400$ . How many peaches were there on the three trees?

## LESSON LXXIV.

1.  $6171 \div 3 = ?$   $4751$  multiplied by  $5 = ?$
2.  $95 \times 2 \times 2 \times 2 \times 2 \times 2 =$  how many?
3.  $94$  multiplied by  $4$  three times  $= ?$
4.  $3300 - 544$  three times.
5. There were  $640$  trees on one side of a street and  $653$  on the other. How many trees on both sides of the street?

## LESSON LXXV.

1. Add  $4$  thousand  $203$ ,  $5$  thousand  $167$ ,  $7$  thousand  $70$ ,  $2$  thousand  $835$ ,  $1$  thousand  $119$ , and  $976$ .
2. Divide  $6321$  by  $3$ .  $4736 \div 2 = ?$
3.  $5$  times  $3867$  are how many?
4.  $4$  times  $5769$  are how many?
5. A man paid  $640$  dollars for one horse, and  $275$  dollars for another. How much more did he pay for one than the other?

## LESSON LXXVI.

1. Divide  $5196$  by  $3$ . Multiply  $8467$  by  $4$ .
2.  $47$  multiplied by  $4$  three times  $=$  how many?
3.  $368 \times 5 \times 3 =$  how many?



4.  $7000 - 86$  five times  $= ?$

5. A merchant bought three pieces of cloth. In the first piece there were 48 yards, in the second 55 yards, and in the third 69 yards. How many yards did he buy?

## LESSON LXXVII.

1. Divide 7096 by 2.  $1275 \div 3 = ?$

2.  $89 \times 5 \times 3 =$  how many?

3. 4 times 6378  $=$  how many?  $6847 \times 4 = ?$

4.  $6000 - 867$  four times  $=$  how many?

5. A man paid 275 dollars for a carriage, 180 dollars for a horse, and 45 dollars for a harness. How much did he pay for all?

## LESSON LXXVIII.

1.  $4760 + 3548 + 1365 + 2041 + 7956 + 8590 = ?$

2. Divide 5652 by 3. Multiply 4837 by 3.

3.  $6584 - 674 - 369 - 48 =$  how many?

4.  $486 \times 4 \times 3 \times 2 =$  how many?

5. In one orchard there are 128 trees, and 4 times as many in another. How many trees are there in the last orchard?

## LESSON LXXIX.

1. Divide 3754 by 2. Divide 3759 by 3.

2. How many trees are 5 times 6789 trees?

3.  $879 \times 4 \times 2 =$  how many?

4.  $8001 - 18$  five times  $=$  how many?

5. A farmer received 642 dollars for corn, 575 dollars for oats, and 98 dollars for barley. How much did he receive for all?

## LESSON LXXX.

1. Divide 3954 by 2. Divide 3789 by 3.
2.  $496 \times 2 \times 3 =$  how many?
3. Multiply 368 by 4 two times.
4.  $5400 - 637 - 1040 - 56 - 4 =$  how many?
5. There were 240 pigeons in a flock, and some hunters shot 45 of them. How many pigeons were left?

## LESSON LXXXI.

1. What is the sum of 3040, 7681, 3547, 1785, 6594 and 1897?
2. Divide 3459 by 3. Multiply 6087 by 4.
3. Four times 6758 = how many?
4.  $7356 - 6465 =$  how many?
5. David gathered 297 chestnuts and his brother gathered four times as many. How many did his brother gather?

## LESSON LXXXII.

1. Divide 7497 by 3.  $5769 \div 3 = ?$
2.  $879 \times 5 \times 3 =$  how many?
3. Four times 5096 = how many?
4.  $6000 - 4583 - 816 - 9 =$  how many?
5. There are 645 marbles in one store, and 326 in another. How many more marbles are there in one store than in the other?

## LESSON LXXXIII.

1. Divide 8250 by 3. Multiply 9468 by 5.
2. 5987 multiplied by 3 = how many?
3.  $876 \times 5 \times 4 =$  how many?

4.  $6760 - 2373 - 2365 - 368 =$  how many?
5. A traveled 278 miles in a day, which was 25 miles less than B traveled. How many miles did B travel?

## LESSON LXXXIV.

1. What is the sum of 5564, 1348, 3421, 1356, 2741 and 5973?
2.  $2358 \div 3 =$  how many?  $6879 \div 3 =$  ?
3. Multiply 6487 by 4.
4.  $4132 - 3729 - 100 - 45 =$  ?
5. There are 179 slate pencils in a box. How many are there in 5 boxes?

## LESSON LXXXV.

1.  $3916 \div 2 =$  how many?  $4740 \div 3 =$  how many?
2. Multiply 69 by 2 five times.
3. 349 multiplied by 4 two times = ?
4. Take 1184 from 1263.
5. If there are 249 sheets of paper in one package, how many sheets would there be in five packages of the same size?

## LESSON LXXXVI.

1. Divide 5716 by 2. Divide 4941 by 3.
2. Multiply 67 by 3 three times.
3. Four times 6897 horses are how many horses?  
How many are 5 times 8497 boxes?
4. Take 3184 from 4263.
5. A man in building a house paid 1600 dollars for brick and mortar, 235 dollars for paint and glass, 846 dollars for lumber, and 356 dollars to workmen. How much did his house cost him?

## LESSON LXXXVII.

1. Add 4 thousand 613, 1 thousand 1, 7 thousand 58, 2 thousand 547, 8 hundred 92, and 448.
2.  $6152 \div 4 =$  how many? Divide 7048 by 4.
3.  $3045 - 1248$  two times  $=$  how many?
4. Multiply 143 by 4 two times.  $4839 \div 3 = ?$
5. A grocer had in his store 387 pounds of coffee and 5 times as many pounds of sugar. How many pounds of sugar had he?

## LESSON LXXXVIII.

1.  $5720 \div 4 =$  how many?
2.  $4854 \div 2 \div 3 =$  how many?
3.  $8379 \times 4 =$  how many?  $3948 \times 5 =$  how many?
4.  $6031 - 437$  three times  $=$  how many?
5. How many are 5 times 1385 miles?

## LESSON LXXXIX.

1. Divide 3196 by 4.  
How many times is 4 contained in 6384?
2.  $4032 \div 3$  two times  $=$  how many?
3.  $647 \times 4 \times 3 \times 2 =$  how many?
4.  $9135 - 2164$  three times  $=$  how many?
5. A paid 400 dollars for a horse, which was 5 times as much as he paid for a cow. How much did he pay for his cow?

## LESSON XC.

1. Add 6 thousand 430, 3 thousand 75, 4 thousand 706, 2 thousand 483, 6 thousand 4, 3 hundred 50.
2. Divide 3804 by 4. Divide 4608 by 4.

3. 5 times 6089 = how many?  $49089 \div 3 = ?$
4.  $8564 - 7655 =$  how many? Prove.
5. Mary has 165 cents and her brother has 4 times as many. How many cents has her brother?

## LESSON XCI.

1. How many times is 4 contained in 9856?
2. Divide 2085 by 3. Divide 87496 by 4.
3. Take 3479 from 4687 and prove.
4.  $586 \times 3 \times 4 =$  how many?
5. A man sold 575 bushels of wheat to one man, 640 to another, and kept 487 bushels himself. How many bushels had he at first?

## LESSON XCII.

1.  $3540 \div 4 =$  how many?  $9680 \div 4 =$  how many?
2. Take 1463 from 3024 and prove.
3.  $389 \times 3 \times 5 =$  how many? Multiply 6987 by 4.
4.  $1521 \div 3 \div 3 =$  how many?
5. A paid 9700 dollars for a house, which was twice as much as B paid for his. How much did B's cost him?

## LESSON XCIII.

1.  $6491 + 3038 + 2736 + 8647 + 3925 + 4480 = ?$
2. Divide 9172 by 4.  $1848 \div 4 =$  how many?
3. 3 is contained in 5286 how many times?
4.  $658 \times 3 \times 4 = ?$
5. James' kite string is 275 feet long, and Harry's 237 feet long. How much longer is James' than Harry's?

## LESSON XCIV.

1. Add 4 thousand 93, 6 thousand 435, 2 thousand 8, 3 thousand 107, 2 thousand 76, and 5 thousand 843.
2.  $7472 \div 4 =$  how many?  $1104 \div 3 \div 2 =$  how many?
3.  $\frac{1}{2}$  of 482 is how many?  $\frac{1}{2}$  of 5468 is how many?
4. Multiply 194 by 3 two times.
5. How many are 4 times 3976 stars?

## LESSON XCV.

1. Add 5694, 3527, 8362, 1379, 4676 and 3957.
2.  $2184 \div 4 =$  how many?  $2208 \div 3 \div 2 =$  how many?
3.  $\frac{1}{2}$  of 3042 are how many?
4.  $649 \times \frac{1}{2} \times 3 =$  how many?
5. Emma has 148 pictures, which are 24 more than Clara has. How many has Clara?

## LESSON XCVI.

1. Divide 9416 by 4. Divide 8778 by 3.
2.  $183 \times 3$  two times = how many?
3. What is  $\frac{1}{2}$  of 4836?
4. Multiply 9546 by 4. 5 times 4876 = how many?
5. How many more is 610 than 579?

## LESSON XCVII.

1. Find the sum of 6084, 3759, 4279, 3985, 4793 and 8579.
2.  $4220 \div 5 =$  how many?  $7385 \div 5 =$  how many?
3. What is  $\frac{1}{2}$  of 8925? Find  $\frac{1}{2}$  of 80192.

4. Multiply 749 by 4 two times.
5. From 7914 take 3657 and prove.

## LESSON XCVIII.

1. Add 1 thousand 101, 9 thousand 87, 6 thousand 50, 8 thousand 706, 5 thousand 865, and 97.
2. From 4605 take 2746 and prove.
3.  $8765 \div 5 =$  how many?  $1790 \div 5 =$  how many?
4.  $\frac{1}{2}$  of 5380 are how many?  $\frac{1}{2}$  of 1896 are how many?
5. It is 684 miles to Denver, and 4 times as far to Boston. How far is it to Boston?

## LESSON XCIX.

1. How many times is 5 contained in 2465?  
How many times is 5 contained in 4975?
2. 2187 divided by 3 four times = how many?
3. Find  $\frac{1}{2}$  of 9840.  $\frac{1}{2}$  of 3058 = how many?
4.  $4003 - 3991 =$  how many? Prove.
5. A man gathered 623 bushels of potatoes, 164 bushels of apples, 463 bushels of onions, and 375 bushels of turnips. How many bushels did he have in all?

## LESSON C.

1. Add 4476, 3851, 6473, 1384, 2569 and 1768.
2. Find  $\frac{1}{2}$  of 9282. What is  $\frac{1}{2}$  of 4706?
3.  $3185 \div 5 =$  how many?  $5160 \div 5 =$  how many?
4. From 3004 take 2716 and prove.
5. Mary spelled 389 words in a month, and Walter 3 times as many. How many words did Walter spell?

## LESSON CI.

1. From 3000 take 568 four times.
2. Divide 5160 by 5.  $6130 \div 5 =$  how many?
3.  $6587 \times 4 =$  how many?  $3698 \times 3 =$  how many?
4.  $\frac{1}{4}$  of 8280 = how many?  $\frac{1}{4}$  of 6285 = how many?
5. 43 marbles, 165 marbles, 298 marbles, 176 marbles, and 27 marbles are how many?

## LESSON CII.

1. Add 4 thousand 600, 3 thousand 817, 1 thousand 10, 9 thousand 164, 4 thousand 95, and 2 thousand 476.
2. Divide 4505 by 5. Divide 49528 by 4.
3.  $4739 - 546$  three times = how many?
4. What is  $\frac{1}{4}$  of 5444? What is  $\frac{1}{4}$  of 6780?
5. How much would 1687 sheep cost at 2 dollars each?

## LESSON CIII.

1. Add 6493, 1827, 3346, 5462, 3728, 9439.
2.  $4344 \div 4 =$  how many?  $1935 \div 5 =$  how many?
3.  $6549 - 2056 =$  how many? Prove.
4.  $\frac{1}{4}$  of 5118 = how many? What is  $\frac{1}{4}$  of 4706?
5. If James can take 1687 steps in one hour, how many steps can he take in 5 hours?

## LESSON CIV.

1. Multiply 637 by 3 and by 4.
2.  $9872 \div 4 =$  how many?  $4005 \div 5 =$  how many?
3. Find  $\frac{1}{4}$  of 4316. What is  $\frac{1}{4}$  of 5982?
4.  $1000 - 67$  five times = how many?



5. Miles has 47 shells, Harry has 52 shells, and Lucy as many as both Harry and Miles. How many has Lucy?

## LESSON CV.

1. Add 4 thousand 7 hundred, 6 thousand 90, 8 thousand 657, 3 thousand 514, 6 thousand 987.

2.  $3730 \div 5 =$  how many?  $38884 \div 4 =$  how many?

3.  $4371 - 2658 =$  how many? Prove.

4.  $6489 \times 4 =$  how many? 5 times 4796 nuts are how many?

5. Three boys went fishing. Tom caught 47, Charlie 19, and George as many as the other two boys. How many fish did George catch?

## LESSON CVI.

1. What is the sum of 3798, 4632, 5439, 8650, 7408 and 936?

2.  $\frac{1}{4}$  of 6032 = how many?  $\frac{1}{5}$  of 9840 = how many?

3.  $765 \times 4 \times 3 =$  how many?  $67370 \div 5 =$  how many?

4. From 3000 take 78 five times.

5. If I pay 4 dollars for 1 week's board, how much shall I pay for 176 weeks' board?

## LESSON CVII.

1. 5 is contained in 8490 how many times?

2.  $875 \times 4 \times 2 =$  how many?  $9874 \times 5 =$  how many?

3. Divide 41936 by 4 two times.

4.  $43050 - 2659 =$  how many? Prove.

5. In an orchard there are 214 apple trees, 126 peach trees, 114 plum trees, and 26 cherry trees. How many trees are there in the orchard?

## LESSON CVIII.

1. What is the sum of 6 thousand 463, 85, 149, 1 thousand 1, and 674?
2. Divide 5930 by 5.
3.  $\frac{1}{4}$  of 152 equals how many?  $\frac{1}{4}$  of 9080 = how many?
4.  $7650 - 3246 =$  how many? Prove.
5. At 3 dollars a barrel, how many barrels of apples can be bought for 471 dollars?

## LESSON CIX.

1.  $4837 \times 4 =$  how many?  $4956 \times 5 =$  how many?
2. What is  $\frac{1}{4}$  of 5588?  $\frac{1}{4}$  of 5260 = how many?
3. 6730 minus 2641 two times equals how many?
4.  $3496 \div 4 =$  how many?  $8208 \div 4 =$  how many?
5. Mr. Smith's house cost 2650 dollars, Mr. Brown's 6498 dollars, and Mr. Street's 9840 dollars. How much did they all cost?

## LESSON CX.

1.  $\frac{1}{4}$  of 3545 = how many?  $\frac{1}{4}$  of 50214 = ?
2. Multiply 6374 by 5.  $6785 \times 4 \times 3 =$  how many?
3.  $1000 - 567 - 77 - 130 =$  how many?
4. 7304 divided by 4 = how many?
5. John sold 6324 apples from his stand during the year, which was 4 times as many as James sold. How many did James sell?

## LESSON CXI.

1. Add 1 thousand 1 hundred 45, 6 hundred, 5 thousand 1 hundred 79, 3 thousand 50, and 76.
2. Divide 9896 by 4. Divide 27216 by 4.

3.  $\frac{1}{3}$  of 7535 = how many? What is  $\frac{1}{3}$  of 1092?
4.  $6354 - 4567$  = how many? Prove.
5. What is  $\frac{1}{3}$  of 61028 miles?

## LESSON CXII.

1.  $1050 \div 5$  = how many?  $69956 \div 4$  = how many?
2.  $784 \times 4 \times 3$  = how many?  $\frac{1}{3}$  of 3846 = how many?
3.  $\frac{1}{3}$  of 9490 = how many?
4.  $11000 - 1468$  five times = how many?
5. Fred has 120 marbles and Willie has one half as many.  
How many has Willie?

## LESSON CXIII.

1. Add 4636, 6492, 1853, 707, 359 and 83.
2. Divide 71040 by 5.  $31752 \div 4$  = how many?
3.  $268 \times 3 \times 6$  = how many?  $3468 \times 4$  = how many?
4.  $5463 - 4375$  = how many? Prove.
5. Henry sold 1000 daily papers, which was 4 times as many as Ralph sold. How many did Ralph sell?

## LESSON CXIV.

1. Add 4 thousand 690, 7 thousand 3 hundred 62, 5 thousand 30, 6 thousand 954, and 1 thousand 1 hundred 11.
2.  $9044 \div 4$  = how many?  $3025 \div 5$  = how many?
3.  $468 \times 4 \times 3$  = how many?
4.  $\frac{1}{3}$  of 7012 = how many?  $\frac{1}{3}$  of 5604 = how many?
5. Mr. Allen has 647 books in his library, and Mr. Bell has 684 books in his. How many more books has Mr. Bell than Mr. Allen?

## LESSON CXV.

1. Divide 86720 by 4.  $7096 \div 4 =$  how many?
2.  $4250 \div 5$  three times = how many?
3.  $\frac{1}{4}$  of 9788 = how many?  $\frac{1}{3}$  of 2127 = how many?
4. How many are 4 times 4678 apples?
5. 7654 apples are how many more than 3876 apples?

## LESSON CXVI.

1. What is the sum of 3 thousand 863, 2 thousand 129, 1 thousand 78, 5 thousand 9, and 1 thousand 1?
2.  $7985 \times 4 =$  how many?  $2796 \div 4 =$  how many?
3.  $4434 \div 2 \div 3 =$  how many?
4.  $7690 - 5876 =$  how many? Prove.
5. A's farm is worth 6428 dollars, and B's  $\frac{1}{2}$  as much. How much is B's worth?

## LESSON CXVII.

1. Add 9047, 3654, 1876, 7935, 4280 and 1367.
2.  $6257 - 4436 =$  how many? Prove.
3.  $82096 \div 4$  two times = how many?
4.  $\frac{1}{2}$  of 40365 days = how many?  
 $\frac{1}{4}$  of 9484 melons = how many?
5. If there are 365 days in one year, how many days are there in 4 years?

## LESSON CXVIII.

1. 4 times 4639 = how many?  $\frac{1}{4}$  of 5856 = ?
2.  $658 \times 3 \times 4 \times 5 =$  how many?
3.  $4320 \div 2 \div 3 \div 4 =$  how many?

4.  $\frac{1}{4}$  of 1848 sheep are how many?
5. A man gave his son 240 dollars, his daughter 1116 dollars, and his wife 1564 dollars. How many dollars did he give to the three?

## LESSON CXIX.

1. Add 3 thousand 75, 9 thousand 304, 1 thousand 10, 3 thousand 8, 7 thousand 60, and 9 hundred 4.
2.  $16800 \div 5$  two times = how many?
3.  $\frac{1}{4}$  of 4036 = how many?  $\frac{1}{4}$  of 54084 = ?
4.  $7459 \times 4 \times 2$  = how many?
5.  $5000 - 487$  four times = how many?

## LESSON CXX.

1. Add 4370, 2956, 1008, 4793 and 8967.
2.  $(4645 \times 5) + (6780 \times 4)$  = how many?
3.  $40125 \div 5 \div 5$  = how many?
4.  $8765 - 6866 - 1172 - 293$  = how many?
5. Edwin has 4 times as many books as Harry, who has 37. How many books has Edwin?

## LESSON CXXI.

1.  $8743 - 5962$  = how many? Prove.
2.  $684 \times 3 \times 2 \times 4$  = how many?
3.  $(764 \times 5) + (836 \times 3)$  = how many?
4.  $\frac{1}{4}$  of 9840 pears are how many?
5. A man had 672 bushels of apples in his cellar and  $\frac{1}{4}$  of them were frozen, How many bushels were frozen?

## LESSON CXXII.

1. Add 4 thousand 80, 6 thousand 768, 3 thousand 95, 1 thousand 87, and 4 thousand 348.
2.  $(8465 \times 2) - (3754 \times 4) =$  how many?
3.  $5000 - 4793 =$  how many? Prove.
4.  $45120 \div 3 \div 4 \div 5 =$  how many?
5. Lucy learned to spell 1460 words in a year, and May 984. How many more words did Lucy learn than May?

## LESSON CXXIII.

1. Add 4093, 8723, 4657, 1845 and 9764.
2.  $(2468 \times 3) + (1409 \times 5) =$  how many?
3.  $6470 - 5893 =$  how many? Prove.
4.  $\frac{1}{4}$  of 94832 = ?  $489 \times 4$  two times = how many?
5. A man has 234 bushels of apples. If he should put 3 bushels into each barrel, how many barrels would it take to hold them?

## LESSON CXXIV.

1. Find the sum of 4730, 927, 401, 6850, 92, and 8.
2.  $(\frac{1}{3} \text{ of } 6302) + (1479 \times 3) =$  how many?
3.  $34784 \div 4$  two times = how many?
4.  $\frac{1}{4}$  of 7480 horses = how many horses?  
 $\frac{1}{4}$  of 8544 = ?
5.  $63047 - 54092 =$  how many? Prove.

## LESSON CXXV.

1.  $(6468 \times 3) + (8401 \times 4) =$  how many?
2.  $5496 - 129 - 4087 - 18 - 34 =$  how many?
3. 4 is contained in 9352 how many times?

4.  $\frac{1}{2}$  of 9482 plums = how many plums?  $\frac{1}{3}$  of 4795 = ?
5. A tailor bought 389 yards of cloth, and paid 4 dollars a yard. How much did he pay for it all?

## LESSON CXXVI.

1. What is the sum of 6 thousand 9 hundred 1, 4 thousand 3 hundred 82, 7 thousand 1 hundred 6, 4 hundred, and 8 hundred 97.
2.  $(863 \times 5) - (872 \times 4) =$  how many?
3.  $\frac{1}{4}$  of 9352 = ?  $\frac{1}{5}$  of 4764 = ?
4.  $7654 - 3765 - 1367 =$  how many?
5. Mr. Smith has 36428 dollars, which is 4 times as much as his brother has. How much money has his brother?

## LESSON CXXVII.

1.  $(8374 \times 5) - (\frac{1}{2} \text{ of } 4802) =$  how many?
2.  $7896 \times 4 = ?$   $9387 \times 4 = ?$
3.  $60504 - 23761 =$  how many? Prove.
4. What is  $\frac{1}{4}$  of 5432?  $\frac{1}{5}$  of 7302 = ?
5. On one side of a street there are 864 houses, on the other side there are 114 less. How many houses are there on the other side?

## LESSON CXXVIII.

1.  $7408 + 5937 + 863 + 79 + 84 + 9 = ?$
2.  $(\frac{1}{2} \text{ of } 4968) + (837 \times 5) = ?$
3.  $987 \times 4 \times 3 = ?$   $\frac{1}{4}$  of 4344 = how many?
4.  $5437 - 1796$  two times = ?
5. A boy received 450 cents for daily papers at 5 cents each. How many papers did he sell?

## LESSON CXXIX.

1. Add 4 thousand 76, 984, 3 hundred 7, 6 thousand 672, and 49.
2. ( $\frac{1}{4}$  of 6984)  $-(317 \times 5) =$  how many?
3.  $4404 \div 3 \div 4 =$  how many?  $4976 \div 4 = ?$
4.  $90761 - 83594 =$  how many? Prove.
5. A man had 3654 bricks in a pile and sold 2500 of them. How many had he left?

## LESSON CXXX.

1.  $\frac{1}{3}$  of 7308  $-\frac{1}{4}$  of 4936  $=$  how many?
2.  $3840 \div 5 \div 4 =$  how many?
3.  $4500 - 3796 =$  how many? Prove.
4.  $798 \times 4 \times 3 =$  how many?  $9684 \times 5 = ?$
5. A man planted 698 hills of corn and put 4 kernels into each hill. How many kernels of corn did it take?

## LESSON CXXXI.

1. Add 4967, 5481, 3749, 8536 and 2488.
2. From 100 take 6 ten times.
3.  $(1468 \times 4) + (1798 \times 5) =$  how many?
4. Since there are 2 pints in a quart, how many pints are there in 348 quarts?
5. Harry had 3 brothers and 2 sisters and gave to each of them 5 chestnuts. How many chestnuts did it take?

## LESSON CXXXII.

1. Add 4 thousand 51, 9 thousand 763, 5 thousand 498, 3 thousand 7, and 968.
2.  $9786 \times 4 = ?$   $8769 \times 3 = ?$
3.  $7694 - 5987 = ?$  Prove.  $\frac{1}{3}$  of 8754  $= ?$



4. Since there are 2 pints in a quart, how many pints are there in 496 quarts?

5. A farmer raised 675 bushels of wheat, and  $\frac{1}{3}$  as many bushels of oats. How many bushels of oats did he raise?

## LESSON CXXXIII.

1.  $(\frac{1}{2} \text{ of } 47896) + (\frac{1}{3} \text{ of } 65940) = \text{how many?}$

2.  $34056 - 7166$  two times = how many?

3. How many times is 5 contained in 70365?

4. As there are 4 quarts in a gallon, how many quarts are there in 136 gallons?

5. In a school of 981 pupils, 27 were tardy. How many were in time?

## LESSON CXXXIV.

1.  $(\frac{1}{4} \text{ of } 79632) - (1283 \times 5) = \text{how many?}$

2.  $3498 \times 5 \times 2 = \text{how many?}$   $\frac{1}{2} \text{ of } 5928 = ?$

3.  $7731 - 3248$  two times = how many?

4. How many quarts are there in 43 gallons?

5. A carpenter used 1849 nails in boarding one side of a house. How many did he use in covering 2 sides of the house?

## LESSON CXXXV.

1.  $3420 + 9476 + 1085 + 379 + 48 = ?$

2.  $6485 - 3986 = \text{how many?}$  Prove.

3. What is  $\frac{1}{4}$  of 47396? What is  $\frac{1}{2}$  of 9484?

4. How many quarts are there in 76 gallons?

How many pints are there in 46 quarts?

5. George raised 236 chickens, and Frank one fourth as many. How many chickens did Frank raise?

## LESSON CXXXVI.

$$12 \text{ inches} = 1 \text{ foot.}$$

$$3 \text{ feet} = 1 \text{ yard.}$$

1. ( $\frac{1}{4}$  of 27261) — ( $\frac{1}{4}$  of 25392) = how many?
2.  $4968 \times 4 = ?$   $5897 \times 5 = ?$
3.  $36584 - 29756 =$  how many? Prove.
4. As there are 3 feet in one yard, how many feet are there in 47 yards?  
How many feet are there in 92 yards?
5. Clara has 329 picture cards, Fanny 281, and Mabel 176. How many have all?

## LESSON CXXXVII.

1. What is the sum of 9 thousand 876, 3 thousand 84, 7 thousand 698, 5 thousand 40, and 1 thousand 1?
2. ( $\frac{1}{4}$  of 9856) + ( $\frac{1}{4}$  of 47365) = how many?
3.  $6437 - 1592 - 1279 - 84 = ?$
4. How many *feet* are there in 146 yards?  
How many *pints* are there in 128 quarts?
5. 845 apples are how many more than 678 apples?

## LESSON CXXXVIII.

1. ( $\frac{1}{4}$  of 19240) — ( $\frac{1}{4}$  of 6534) = how many?
2.  $78401 - 69582 =$  how many? Prove.
3.  $58056 \div 4 \div 3 =$  how many?
4. How many *quarts* are there in 154 gallons?  
How many *feet* are there in 148 yards?
5. Sarah attended school 196 days during the year, and her brother  $\frac{1}{4}$  as many. How many days did her brother attend school?

## LESSON CXXXIX.

1. Add 1 thousand 1, 6 thousand 70, 9 hundred 67, 8 thousand 76, 458, and 79.
2. ( $\frac{1}{4}$  of 79360) — ( $\frac{1}{4}$  of 37652) = how many?
3.  $94300 - 76825 =$  how many? Prove.
4. How many *quarts* in 276 pints?  
How many *gallons* in 464 quarts?
5. If 843 gallons of water run into a cistern in an hour, and 478 run out, how many gallons are there in the cistern at the end of the hour?

## LESSON CXL.

1. ( $\frac{1}{4}$  of 7684) + ( $\frac{1}{4}$  of 49560) = ?
2.  $1040 - 187$  five times = how many?
3.  $478 \times 4 \times 3 \times 5 = ?$   $\frac{1}{4}$  of 6894 = ?
4. How many *gallons* are there in 312 quarts?  
How many *yards* are there in 609 feet?
5. A gardener cut 1840 roses during the year and sold all but  $\frac{1}{4}$  of them. How many did he cut that he did not sell?

## PROMISCUOUS EXAMPLES.

1.  $4603 + 2464 + 5032 + 6044 + 342 + 461 + 340 + 14 + 404$   
 = how many ?

2.  $\begin{array}{l} 4632 \times 5 \\ 2467 \times 6 \end{array} \left. \vphantom{\begin{array}{l} 4632 \times 5 \\ 2467 \times 6 \end{array}} \right\} \text{add.}$       3. From 2 times 6873 take 7432.

4. There are 645 beads in a box. Clara gave them away, giving to each girl 5 beads. To how many girls did she give the beads?

5. A grocer sold 687 quarts of syrup daily, for 6 days. How many quarts did he sell in all?

6.  $4630 + 6483 - 6245 - 4106 = ?$

7. If a boy worked 5 hours a day for 278 days, how many hours did he work in all?

8.  $834656 \div 2$  five times = how many?

9. A man had 4625 dollars in a bank; he put in 5 dollars a week. How many weeks did it take him?

10.  $\begin{array}{l} 4202 \div 2 \\ 3478 \times 4 \end{array} \left. \vphantom{\begin{array}{l} 4202 \div 2 \\ 3478 \times 4 \end{array}} \right\} \text{add.}$       11. What is  $\frac{1}{4}$  of 81236?

12. If a boy earned 1546 cents in a month, and spent 1000 cents, how many cents had he left?

13.  $(\frac{1}{2} \text{ of } 48030) - (567 \times 4 \times 2) = \text{how many?}$

14.  $54361 + 6346 - 640 - 1000 - 36 = \text{how many?}$

15. A man paid 428 dollars for a horse, and 5 times as many dollars for a house. How much did he pay for his house?

16. Divide 156950 by 5 two times.

17.  $\begin{array}{l} 4202 \div 2 \\ 3478 \times 4 \end{array} \left. \vphantom{\begin{array}{l} 4202 \div 2 \\ 3478 \times 4 \end{array}} \right\} \text{add}$       18.  $(\frac{1}{2} \text{ of } 61320) + (6487 \times 5) = ?$

19. A man died and left his son Harvey 2648 dollars, his son Robert 1844 dollars, his daughter 1671 dollars, his wife 5630 dollars. How many dollars did he leave to all of them?

20.  $\frac{1}{2}$  of 782 trees = ?  $\frac{1}{3}$  of 1437 dollars = ?
21.  $3589 \times 4 \times 3 \times 2$  = how many ?
22. From 6 times 56849 subtract 53664, four times.
23. If there are 678 beans in a bag, how many beans are there in four bags ?
24.  $\frac{1}{2}$  of 6087 } add  
 $4687 \times 4$  } results.      25.  $985674 \div 6$  = how many ?
26.  $(\frac{1}{2} \text{ of } 61320) + (6487 \times 5)$  = how many ?
27. Add 6 hundred sixty-four thousand 1, 40 thousand 30, 3 hundred 1 thousand 5, 60, 63 thousand forty, 2 hundred 4 thousand 3.
28.  $46532 + 1364 - 3426$  = how many ?
29. There were 256 pints of cranberries in a barrel. A grocer dealt them out to customers, selling 2 pints to each. To how many customers did he sell the berries ?
30. From 100000 take 6789 four times.
31.  $873 \times 6 \times 5 \times 4$  = ?
32.  $3876 \times 6$  }  
 $4782 \times 4$  } add.  
 $3201 \times 2$  }
33. A man buys 642 sheep at 4 dollars each, and 583 at 3 dollars each. How much does he pay for all ?
34.  $640000 - 44366 - 5446 + 63466$  = how many ?
35. What is  $\frac{1}{4}$  of 203744 ?
36. A man had 306243 dollars. He loses 46565 dollars at one time, 54854 at another, and 46566 at another. How much has he left ?
37.  $(7957 \times 4) - (6954 \times 3)$  = how many ?
38. What is  $\frac{1}{2}$  of 451600 ?  $\frac{1}{4}$  of 10824 ?
39. There are 15760 grains in a bushel of oats, and 6670 grains in a bushel of corn. How many more grains in a bushel of oats than in a bushel of corn ?
40. If it costs 6340 dollars to pave one block, how much will it cost to pave a street 5 blocks in length ?

$$\begin{array}{l} 2384 \times 5 \\ 41. \quad 3476 \times 6 \\ \quad 9854 \times 4 \end{array} \left. \vphantom{\begin{array}{l} 2384 \times 5 \\ 3476 \times 6 \\ 9854 \times 4 \end{array}} \right\} \text{add.} \quad \begin{array}{l} 42. \quad 10000 - 361 - 6472 - 16 = ? \\ 43. \quad 654831 - 463462 = ? \text{ Prove.} \end{array}$$

44. Multiply  $\frac{1}{4}$  of 8296 by 5 and by 4.

45. Lena paid 75 cents for sugar, 43 cents for apples; she gave the grocer 200 cents; how many cents ought the grocer to give her back?

46. Write 3 thousand four hundred fifty-one, 13 thousand two hundred fifty-five, 30 thousand thirty, 21 thousand twenty-one, five thousand fifty-two.

47. It is 960 miles from Chicago to New York. When a man has traveled  $\frac{1}{3}$  the distance, how far has he traveled?

$$\begin{array}{l} 2607 \times 3 \\ 48. \quad 5870 \times 4 \\ \quad 1432 \times 5 \end{array} \left. \vphantom{\begin{array}{l} 2607 \times 3 \\ 5870 \times 4 \\ 1432 \times 5 \end{array}} \right\} \text{add.} \quad 49. \quad 4376 \times 6 \text{ two times} = \text{how many?}$$

$$50. \quad 643562 - 43665 - 35462 + 15566 = ?$$

51. There are 100 cents in a dollar. How many cents are there in  $\frac{1}{4}$  of a dollar? In  $\frac{1}{2}$  of a dollar?

$$52. \quad 3564 \times 5 \times 4 \times 3 = \text{how many?}$$

53. A livery man bought 4 loads of hay. The first weighed 1625 pounds, the second 2163 pounds, the third 1561 pounds, and the fourth 3654 pounds. How many pounds did he buy?

$$54. \quad (54832 \times 4) - (\frac{1}{4} \text{ of } 803640) = \text{how many?}$$

55. Write 1 hundred thousand 1, 40 thousand 40, 16, 3 hundred 3 thousand 3, 5 hundred thousand, 10 thousand 10, 45, 1, 6 hundred 60 thousand 60, 45 thousand.

$$56. \quad 48769 \times 6 = \text{how many?}$$

$$57. \quad 6372 + 3562 - 3464 - 1538 = \text{how many?}$$

58. A company of soldiers ate 2430 pounds of meat in 5 days. How much did they eat in a day?

$$59. \quad 645120 \div 4 \div 3 = \text{how many?}$$

$$60. \quad 403600 - 145663 = \text{how many? Prove.}$$

$$61. \quad \frac{1}{4} \text{ of } 83540 - \frac{1}{4} \text{ of } 53016 = \text{how many?}$$

62. If I borrow 6435 dollars, and pay 2636 dollars, how much have I yet to pay?

$$\left. \begin{array}{l} \frac{1}{4} \text{ of } 10020 \\ 63. \quad 4281 \times 6 \\ \quad 7860 \times 4 \end{array} \right\} \text{ add.}$$

64.  $5640 + 3461 + 21 - 5483 =$  how many?

65. A man bought some land for 21875 dollars, and sold it for 32884 dollars. How many dollars did he gain?

66. If one house cost 12684 dollars, how much will six houses cost at the same rate?

67.  $87654 - 78463 + 6432 + 44 =$  how many?

68. A vessel brought 1587 boxes of strawberries and 8763 boxes of blackberries. How many more boxes of blackberries were there than strawberries?

69.  $615312 \div 3 \div 4 = ?$

70.  $(\frac{1}{4} \text{ of } 630250) + (\frac{1}{4} \text{ of } 384604) =$  how many?

71. A man sold 6361 bushels of salt in one month, 4560 the next month, and 3646 the next month. How many bushels did he sell in the 3 months?

72. From 483000 take 464362. Prove.

73.  $3654 \times 4 \times 3 \times 2 =$  how many?

74. If a man saves 566 dollars in one year, how much will he save in 4 years?

75.  $64612 + 3406 - 4556 - 12034 = ?$

## THIRD YEAR.

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NOTE.—Pupils may be taught to add by nines with great rapidity, by considering the number as one less than ten. Thus: teacher say, 63; pupil reply, 72, etc. Eight may be taught in the same manner, by considering it two less than ten.

### LESSON I.

1.  $58654 \times 6 \times 3$  equals how many?
2. Multiply 9468 by 6 two times.
3.  $365432 - 276243$  equals how many?
4.  $(84376 \times 6) - (\frac{1}{3} \text{ of } 978456) =$  how many?
5. There are 1368 panes of glass in a block of houses. How many panes are there in six such blocks of houses?

### LESSON II.

1.  $68654 \times 6 \times 3$  equals how many? 6 times 60819 equals how many?
2.  $73698 \times 6$  equals how many?  $34000 - 5689 =$  how many?
3.  $753185 \div 5$  equals how many?  $\frac{1}{3}$  of 109281 equals how many?
4.  $268920 \div 5 \div 6$  equals how many?
5. A man bought a farm for \$4780 and sold it for \$5684. How much did he gain?

### LESSON III.

1. Divide 157104 by 6. Prove the quotient.
2.  $4268 \times 6 \times 5$  equals how many?
3.  $41325 - 36243 - 1000 - 50$  equals how many?



4. Multiply 14378 by 6 two times.
5. A man paid \$4670 for a farm, which was 5 times as much as the farming utensils cost. What was the cost of the utensils?

## LESSON IV.

1.  $90367 \times 7 =$  how many?  $41869 \times 7 =$  how many?
2.  $436500 - 14675$  four times  $=$  ?
3.  $384792 \times 4 \div 3 \times 6 =$  how many?
4.  $(\frac{1}{4} \text{ of } 38492) + (\frac{1}{8} \text{ of } 54804) - 6743 =$  ?
5.  $(493866 \div 6) + (347829 \div 3) =$  how many?

## LESSON V.

1.  $849376 \times 7 =$  how many?  $243896 \times 7 =$  how many?
2.  $384560 - 124967 - 30857 - 4629 - 58497 =$  ?
3.  $(\frac{1}{8} \text{ of } 489365) + 837954 - 206$  equals how many?
4.  $356 \times 6 \times 4 \times 3 \div 4 \times 2$  equals how many?
5. If in a small box there are six cakes of soap, and there are 24 small boxes in a large box, how many cakes are there in a large box?

## LESSON VI.

1.  $53648 \times 7 =$  how many?  $35924 \times 7 =$  how many?
2.  $374980 - 114879$  three times  $=$  how many?
3.  $47985 \times 3 - 28594 - 16663 - 89 =$  how many?
4.  $(\frac{1}{8} \text{ of } 478350) + (\frac{1}{8} \text{ of } 54900) =$  ?
5.  $672 \times 6 \div 3 \times 4 \times 5 \div 2 =$  how many?

NOTES.—1. If an example contains several subtractions, and each step is proven, it will secure greater accuracy. If this is insisted upon, pupils will soon see the benefit of it.

2. Teacher should notice new points and explain, and should also commence concert work in tables of Compound Numbers.

## LESSON VII.

1.  $\frac{1}{2}$  of 58359 = ?  $26 \times 2 \times 3 \times 4 - 47 = ?$
2.  $105807 \times 7 = ?$   $501392 \times 7 = ?$
3.  $876432 - 64345$  four times = ?
4.  $(\frac{1}{4}$  of 710100) +  $(\frac{1}{5}$  of 317140) = how many?
5. A man had 5406 sheep. He sold  $\frac{1}{3}$  of them for \$2 apiece, and the remainder for \$3 each; how much did he receive for all?

## LESSON VIII.

1.  $\frac{1}{4}$  of 64748 = how many?  $100 - 87 - 3 + 4 + 6 = ?$
2. 7 times 801784 = how many?  $650291 \times 7 =$  how many?
3.  $674320 - 436471 - 14632 - 321 - 15 = ?$
4.  $\frac{1}{3}$  of  $228279 \times 6 \div 2 =$  how many?
5. John takes 16064 steps in going to his dinner, and James takes  $\frac{1}{4}$  as many. How many steps does James take?

## LESSON IX.

1.  $\frac{1}{4}$  of 940872 = ?  $7 \times 8 \times 4 \times 6 \times 2 \times 1 =$  how many?
2. Multiply 857630 by 8.  $579681 \times 8 =$  how many?
3.  $900000 - 674031 - 34612 - 3432 - 150 = ?$
4.  $(\frac{1}{4}$  of 268480) +  $(408634 \times 6) = ?$
5. How many pints in 648 quarts?  
How many pints in 444 quarts?

## LESSON X.

1.  $\frac{1}{4}$  of 849372 = ?  $60 \times 6 \times 4 \div 3 \div 2 \times 5 = ?$
2.  $698463 \times 8 =$  how many?  $624925 \times 8 =$  how many?
3.  $(\frac{1}{3}$  of 203050) -  $(\frac{1}{5}$  of 121830) = ?

4.  $140460 - 34571$  four times = how many?
5. Mr. Manly had 46055 bushels of oats. He sold one-fifth of them to one man, and the remainder to another. How many bushels did he sell to the second man?

## LESSON XI.

1.  $(129346 \times 8) + (\frac{1}{4} \text{ of } 420924) = ?$
2.  $\frac{3}{8} \text{ of } 238008 = ?$   $50 \times 4 \times 6 \div 3 \div 4 \times 7 \times 2 = ?$
3.  $700000 - 98762 - 43423 - 456781 = ?$
4.  $650 \times 6 \times 5 \div 3 \times 7 \times 3 \div 7 = \text{how many?}$
5. In 6842 quarts how many pints?  
In 6842 pints how many quarts?

## LESSON XII.

1.  $\frac{2}{3} \text{ of } 400671 = \text{how many?}$   
 $71 \times 3 \times 5 \div 3 \times 4 \times 6 \div 3 = ?$
2.  $347810 \times 8 = \text{how many?}$   $819205 \times 8 = \text{how many?}$
3.  $460215 - 34367 - 45634 - 56780 - 6481 = ?$
4. In 80964 gallons how many quarts?  
In 80964 quarts how many gallons?
5. In 64310 pints how many gills?  
In 46020 gills how many pints?

## LESSON XIII.

1. Multiply 267394 by 8.  $769834 \times 8 = \text{how many?}$
2.  $\frac{1}{4} \text{ of } 603855 = ?$   $689 \times 7 \times 4 \times 2 \div 4 = \text{how many?}$
3.  $(\frac{2}{3} \text{ of } 436500) + 548000 + (\frac{1}{2} \text{ of } 49044) = ?$
4.  $547836 - 85366 - 48470 - 36521 = ?$
5. Three brothers bought a farm. The first paid \$478.50; the second, \$940.75; and the third as many dollars as the first and second. How much did the farm cost?

## LESSON XIV.

1.  $470850 \times 8 =$  how many? Divide 129312 by 8.
2.  $(955633 \div 7) + (111167 \div 7) = ?$
3.  $(\frac{1}{4} \text{ of } 374952) - (6534 \times 7) =$  how many?
4. How much will 240 quarts cost, at 3 cents a pint?  
How much will 398 quarts cost, at 4 cents a pint?
5. In 540 gallons how many quarts?  
In 31 gallons how many quarts?  
In 48 pints how many gills?  
In 163 pints how many gills?

## LESSON XV.

1.  $675890 \times 9 = ?$  697581 multiplied by 9 = ?
2.  $\frac{1}{4} \text{ of } 864276 + \frac{1}{4} \text{ of } 2378544 =$  how many?
3. In 4780 quarts how many gallons?  
In 5080 quarts how many gallons?
4. In 2880 pints how many quarts?  
In 5498 pints how many quarts?
5.  $300000 - 16438$  two times = ?

## LESSON XVI.

1. 8 times 418697 = ?  $376284 \times 9 = ?$
2.  $(\frac{1}{4} \text{ of } 103145) + (790936 \div 8) =$  how many?
3.  $549830 - 16087$  three times = ?
4. How many gallons in 3684 quarts? In 7632 quarts?
5. Alonzo earned \$504 in a year, and Roy earned  $\frac{3}{4}$  as much. How much did Roy earn?

## LESSON XVII.

1.  $8493762 \times 8 = ?$  Multiply 4896536 by 9.
2.  $(197560 \div 8) + (\frac{1}{4} \text{ of } 443023) =$  how many?

3.  $5438621 - 1234567 - 3645837 - 40083 - 65 = ?$
4. How many quarts in 482 gallons? In 365 gallons?
5. If a vessel sails at the rate of 8 miles an hour, how long will it take it to reach a port that is 968 miles distant?

## LESSON XVIII.

1.  $8074105 \times 9 = ?$  Divide 577024 by 7.
2.  $56 \times 4 \div 7 \times 8 \times 3 \div 4 \div 2 =$  how many?
3.  $(\frac{1}{4} \text{ of } 955633) - (\frac{1}{8} \text{ of } 684372) =$  how many?
4. Reduce 4376 gills to pints. Reduce 534 pints to gills.
5. Mr. Jones put 4380 bushels of oats into 5 bins of equal size. How many bushels were there in each bin?

## LESSON XIX.

1.  $9036758 \times 8 =$  how many?  
 $8967243 \times 9 =$  how many?
2.  $(\frac{1}{4} \text{ of } 275646) + (467944 \div 8) = ?$
3.  $432646 - 243747 - 124687 - 45346 = ?$
4. What is the cost of 8432 quarts, at 9 cts. a gallon?  
What is the cost of 1246 gallons, at 8 cts. a quart?
5. Morton earned \$1460.60 in a year; his brother earned  $\frac{3}{4}$  as much. How much did his brother earn?

## LESSON XX.

1.  $2438967 \times 8 = ?$   $8071450 \times 9 = ?$
2.  $(\frac{1}{8} \text{ of } 806552) + (603288 \div 7) = ?$
3.  $864300 - 95432$  four times  $= ?$
4. What is the cost of 4632 quarts, at 8 cents a pint?  
What is the cost of 4632 quarts, at 9 cents a gallon?
5. Mr. Baker received \$2.50 a day for wages, and paid \$1.10 a day for board. How much does he save in 6 days?

## LESSON XXI.

1.  $(934384 \div 8) + (39215 \times 9) = ?$
2.  $80 \times 8 \times 9 \div 6 \div 2 \times 7 \times 6 \div 7 = \text{how many?}$
3.  $648073 + 546320 - 246738 - 84687 = ?$
4. What is the cost of 8640 gills, at 9 cents a pint?  
What is the cost of 4350 pints, at 8 cents a gill?
5. Irving bought 640 acres of land, at \$9 an acre, and gave in payment a house worth \$4672. How much does he still owe for the land?

## LESSON XXII.

1. Divide 7843806 by 9. Find  $\frac{1}{3}$  of 361896.
2.  $(\frac{1}{4} \text{ of } 955633) - (\frac{1}{4} \text{ of } 684378) = ?$
3.  $883 \times 2 \times 7 \times 3 \times 2 \div 6$  equals how many?
4. What is the cost of 480 gallons, at 9 cents a quart?  
What is the cost of 1728 gallons, at 7 cents a quart?
5. What is the cost of 4680 quarts, at 6 cents a pint?  
What is the cost of 3782 quarts, at 8 cents a pint?

## LESSON XXIII.

1.  $696825 \div 9 = ?$  Find  $\frac{1}{4}$  of 678125.
2.  $(\frac{2}{3} \text{ of } 5468316) + (291865 \times 9) = \text{how many?}$
3.  $9478 \times 6 \times 5 \times 4 \div 3 \div 2 + 8376 + 951 = ?$
4. What is the cost of 4936 quarts of berries, at 6 cents a pint?  
What is the cost of 3780 pints of milk, at 2 cents a gill?
5. In an orchard there are 3 rows of apple-trees, and 38 trees in each row; four rows of peach-trees, with 95 trees in each row; and 36 plum-trees. How many trees are there in the orchard?

## LESSON XXIV.

1. Divide 736623 by 9.  $307432 \div 8 = ?$
2.  $47936 - 35498 - 5638 - 4789 - 7 = ?$
3. ( $\frac{4}{5}$  of 806552) — ( $\frac{3}{4}$  of 43805) = ?
4. What is the cost of 378 pints of nuts, at 6 cents a quart?

What is the cost of 4080 pints of filberts, at 8 cents a quart?

5. A man left to each of three sons \$4780; to each of two daughters, \$3648; to his wife, \$9600. How many dollars did he leave to all?

## LESSON XXV.

1.  $159565 \div 7 = \text{how many?}$   $591264 \div 8 = \text{how many?}$
2.  $\frac{5}{6}$  of 516720 multiplied by 9, divided by 3 = how many?
3.  $678432 - 583764 - 9001 - 4261 - 348 = ?$
4. What is the cost of 8376 gallons, at 8 cents a quart? Of 466 quarts, at 7 cents a pint?
5. I sold a chain for \$89, a watch for \$58, and a tea-set for as much as both chain and watch. How much did I get for all?

## LESSON XXVI.

1. Divide 611376 by 8. Divide 325575 by 9.
2. ( $\frac{3}{4}$  of 4502897) + 648987 = how many?
3.  $86724 - 9872$  four times = how many?
4. What is the cost of 288 pints, at 8 cents a quart?  
What is the cost of 440 pints, at 9 cents a quart?
5. A man spent \$1489 each year for 8 years. How much did he spend in all?

## LESSON XXVII.

1.  $490671 \div 9 =$  how many?  $869607 \div 9 =$  how many?
2. ( $\frac{1}{3}$  of 336536) + 42867 — 31509 = how many?
3. 64082 — 3421 five times = how many?
4. What is the cost of 840 quarts, at 9 cents a gallon?  
What is the cost of 240 quarts, at 7 cents a gallon?
5. Manly paid \$6 for pants, \$28 for a coat and vest, \$25 for an overcoat; and Morton paid three times as much for his suit. What was the cost of Morton's suit?

## LESSON XXVIII.

1. Divide 914868 by 9. Find  $\frac{1}{4}$  of 854832.
2.  $\frac{1}{4}$  of 84035 +  $\frac{1}{3}$  of 11675 = how many?
3.  $493068 - 214937 - 165842 - 89761 - 49 =$  ?
4. What is the cost of 4380 gills of cream, at 7 cents a pint?  
What is the cost of 5268 gills of cream, at 6 cents a pint?
5. A merchant bought 153 barrels of flour. He found 30 barrels were spoiled. He sold the remainder at \$6 a barrel. How much did he receive for them?

## LESSON XXIX.

1.  $624483 \div 9 =$  ? Divide 330228 by 9.
2.  $5879 \times 6 \times 8 \times 4$  equals how many?
3.  $\frac{1}{3}$  of 54936 +  $\frac{1}{3}$  of 10971 equals how many?
4. What is the cost of 83456 quarts of acid, at 8 cents a gallon?  
What is the cost of 4368 quarts of oil, at 7 cents a gallon?
5. A boy had 378 feet of kite-string. He lost  $\frac{1}{3}$  of it. How many feet were left?



## LESSON XXX.

1. Divide 109764 by 9.

$$48 \times 6 \times 7 \times 5 \div 2 \div 3 = \text{how many?}$$

2. 43968—11479 three times equals how many?

3.  $\frac{1}{3}$  of 3074264 +  $\frac{1}{3}$  of 8143434 = ?

4. What is the cost of 3428 pints of buttermilk, at 5 cents a quart?

What is the cost of 4236 pints of kerosene, at 9 cents a quart?

5. Ralph, Oscar and Morton have each 648 cents. How many cents have all?

## LESSON XXXI.

1.  $\frac{1}{2}$  of 70104 +  $\frac{1}{2}$  of 534440 equals how many?

2. Divide 507717 by 9. Divide 895752 by 9.

3. 67480—43281—1642—313—14 equals how many?

4. What is the cost of 4602 pints, at 7 cents a quart?

What is the cost of 582 pints, at 8 cents a quart?

5. A merchant bought 897 cases of boots, each case containing 9 pairs. What is the cost of the boots, at \$8 a pair?

## LESSON XXXII.

1.  $802134 \div 9$  equals how many?

$$845964 \div 9 \text{ equals how many?}$$

2. What is  $\frac{1}{3}$  of 789824?  $60 \times 9 \div 3 \times 8 \times 4 \times 2 \div 4 \div 4$  equals how many?

3. 64089—5867 five times equals how many?

4. What is the cost of 8712 gills, at 7 cents a pint?

What is the cost of 4320 gills, at 8 cents a quart?

5. Leonard had 9 bags, and put into each bag 1789 nuts. How many nuts did he put into all the bags?

## LESSON XXXIII.

1. What is the value of  $\frac{1}{3}$  of 5760 multiplied by 9?
2.  $640312 - 87623$  five times equals how many?
3.  $640 \times 9 \times 6 \div 3 \div 3 \times 8 \times 4 \div 2 \div 4 = ?$
4. What is the cost of 840 gallons, at 5 cents a quart?  
What is the cost of 240 gallons, at 7 cents a quart?
5. If it takes 9867 beans to make one bushel, how many beans does it take to make 9 bushels?

## LESSON XXXIV.

1.  $2536984 \times 9 =$  how many?  
 $8192764 \times 7 =$  how many?
2.  $\frac{1}{4}$  of 59630 +  $\frac{1}{3}$  of 109764 equals how many?
3.  $437698 \times 6 \div 3 \times 4 \times 2 \div 8 + 35620$  equals how many?
4. What is the cost of 5940 gills, at 8 cents a pint?  
What is the cost of 483 pints, at 6 cents a gill?
5. What did it cost to build 7 houses, if each house cost \$4937?

## LESSON XXXV.

1.  $701344 \div 7 =$  how many?  $736623 \div 9 =$  how many?
2.  $\frac{1}{3}$  of 701631 -  $\frac{1}{4}$  of 810738 equals how many?
3.  $46857 - 3690$  four times equals how many?
4. What is the cost of 6480 gallons, at 9 cents a quart?  
What is the cost of 6480 quarts, at 9 cents a gallon?
5. A drover paid \$3 apiece for 2008 sheep, and \$4728 for horses. How much more did he pay for the sheep than the horses?

## LESSON XXXVI.

1.  $73628 \times 7 \times 6 \times 5 \times 2$  equals how many?
2.  $\frac{1}{2}$  of 5437683 +  $\frac{1}{4}$  of 4382693 = how many?
3.  $\frac{1}{4}$  of 95564 +  $\frac{1}{8}$  of 819208 +  $\frac{1}{8}$  of 69687 = how many?
4.  $209 \times 3 \times 10 \times 6 \times 2 \div 4 \div 3$  equals how many?
5. Reduce 768 gallons to quarts.

A man paid 9 cents a quart for 63 gallons of vinegar. How much did it cost him?

NOTE.—Exercises in Federal Money are here introduced, to be taken in connection with division with 10, 100, etc.; to be taught that annexing a cipher, multiplies by 10; and pointing off the right-hand figure, divides by 10. Multiplications by 11 and 12 should be by the short process.

## LESSON XXXVII.

1.  $674832 - 81926$  four times equals how many?
2.  $\frac{3}{4}$  of 4501588 -  $\frac{1}{8}$  of 7180808 equals how many?
3.  $846018 \times 11 =$  how many?  $64089 \times 11 =$  how many?
4. How many dimes in 468 dollars? In 720 dollars?
5. How many pencils at 7 cents apiece can you buy for 721 cents?

## LESSON XXXVIII.

1.  $8764 \times 9 \times 4 \div 3 \div 3 - 7725 - 321$  equals how many?
2.  $\frac{3}{8}$  of 550335 +  $\frac{1}{8}$  of 1170603 equals how many?
3.  $64083 \times 11 =$  how many?  $5987 \times 11 =$  how many?
4. How many cents in 860 dimes? In 540 dimes?
5. If there are 144 apples in a barrel, and Henry takes out 8 apples a day, how many days will it take him to empty the barrel?

## LESSON XXXIX.

1.  $56483 - 9734$  five times equals how many?
2.  $\frac{1}{4}$  of 53832 —  $\frac{1}{8}$  of 2056 equals how many?
3.  $40989 \times 11 =$  how many?  $648989 \times 11 =$  how many?
4. How many mills in 630 cents? In 220 cents?
5. Bought 648 gallons of wine, and put it into quart bottles. How many bottles did it take?

## LESSON XL.

1.  $649382 \times 11$  equals how many?  
 $453826 \times 12$  equals how many?
2.  $\frac{1}{4}$  of 447594 +  $\frac{1}{8}$  of 59265 equals how many?
3.  $74936 \times 4 \div 2 - 74853 - 3652 - 45$  equals how many?
4. How many dimes in 45 dollars? In 322 dollars?
5. In paving a street, 498 loads of gravel were used. How much did it cost at \$7 a load?

## LESSON XLI.

1.  $5714938 \times 11$  equals how many?  
 $719835 \times 12$  equals how many?
2.  $4938654 - 594783$  three times.
3.  $\frac{1}{4}$  of 757104 —  $\frac{1}{8}$  of 75087 = how many?
4. In 378 dimes how many cents? In 4963 dimes?
5. How many gallons in 6484 quarts? In 5936 quarts?

## LESSON XLII.

1.  $576948 \times 11$  equals how many?  
 $7948367 \times 12$  equals how many?
2.  $456 \times 4 \times 8 \times 3 \div 6 \div 4 - 542 - 87 - 19 - 9$  equals how many?

3.  $\frac{3}{4}$  of 235904 +  $\frac{1}{4}$  of 530784 equals how many?
4. In 5486 cents how many mills?  
In 3562 cents how many mills?
5. I bought 35 pounds of rice, at 9 cents a pound; 48 pounds of sugar, at 10 cents a pound; 50 pounds of flour, at 6 cents a pound. How many cents did I pay for all?

## LESSON XLIII.

1.  $64087 \times 12$  equals how many? .  
 $784653 \times 12$  equals how many?
2.  $58430 - 9843$  five times equals how many?
3.  $\frac{1}{10}$  of 6780560 +  $\frac{3}{4}$  of 726912 equals how many?
4. How many dollars in 660 dimes? In 320 dimes?
5. If in one regiment there are 987 soldiers, how many soldiers are there in 11 regiments?

## LESSON XLIV.

1.  $594887 \times 11$  equals how many? Multiply 809786 by 12.
2.  $550 \times 10 \times 9 \div 5 \div 3 \times 8 \times 12 - 674$  equals how many?
3.  $\frac{3}{10}$  of 897650 -  $\frac{1}{4}$  of 62312 equals how many?
4. How many dimes in 700 cents? In 770 cents?
5. John bought 648 gallons of milk, at 5 cents a quart, and sold it at 7 cents a quart. What was his profit?

## LESSON XLV.

1.  $678496 \times 12$  equals how many? Multiply 89878 by 12.
2.  $57648 - 9375$  three times equals how many?
3.  $\frac{4}{5}$  of 373872 +  $\frac{1}{4}$  of 5088384 equals how many?
4. How many cents in 890 mills? In 990 mills?
5. Carl sold 576 quarts of lemonade at 8 cents a pint. How much did he receive for it?

## LESSON XLVI.

1.  $7468321 \times 12 =$  how many?  
 $9548372 \times 12 =$  how many?
2.  $12 \times 12 \div 4 \times 7 \times 6 \div 3 \div 2$  equals how many?
3.  $\frac{4}{5}$  of 9756837 —  $\frac{3}{5}$  of 8605464 equals how many?
4. In 867 gallons how many quarts?  
 In 653 gallons how many quarts?
5. Reduce 15680 dimes to dollars.  
 Reduce 4700 dimes to dollars.

## LESSON XLVII.

1.  $478395 \times 11$  equals how many?  
 $7894652 \times 12$  equals how many?
2.  $5793862 - 487962$  three times equals how many?
3.  $\frac{3}{4}$  of 86952 +  $\frac{1}{4}$  of 81963 equals how many?
4. In 48760 cents how many dimes?  
 In 53800 cents how many dimes?
5. In one hogshead there are 63 gallons; how many gallons are there in 9 hogsheads?

## LESSON XLVIII.

1.  $598376 \times 12 \times 12$  equals how many?
2.  $41 \times 6 \times 11 \times 6 \div 4 \div 3 \div 3$  equals how many?
3.  $\frac{3}{4}$  of 748590 —  $\frac{1}{4}$  of 18471 equals how many?
4. How many cents in 40000 mills? In 48080 mills?
5. There are 2920 days in 8 years; how many days are there in one year?

## LESSON XLIX.

NOTE.—Multiplication, the multiplier embracing two figures ; long process.

1.  $684987 \times 13$  equals how many ?  
Divide 95381 by 11.
2.  $846897 - 95799$  two times equals how many ?
3.  $\frac{4}{5}$  of 586376 +  $\frac{1}{3}$  of 5277384 equals how many ?
4. How many pecks in 67680 quarts ? In 61184 quarts ?
5. Irving bought 24 pecks of tomatoes, and sold them at 6 cents a quart. How much did he receive for them ?

## LESSON L.

1.  $78649 \times 13$  equals how many ?  
Divide 41646 by 11.
2.  $53309 \times 6 \times 3 \div 6 \times 11$  equals how many ?
3.  $\frac{3}{10}$  of 6878880 —  $\frac{2}{3}$  of 753912 equals how many ?
4. How many bushels in 33504 pecks ? In 30724 pecks ?
5. Henry had 690 cents saved, which he wished to exchange for dimes. How many dimes did he get for them ?

## LESSON LI.

1.  $834067 \times 13$  equals how many ?  
Divide 675048 by 11.
2.  $\frac{5}{8}$  of 879120 +  $\frac{3}{4}$  of 29704 equals how many ?
3. What is the cost of 896 quarts, at 5 cents a pint ?
4.  $959480 - 39591$  five times equals how many ?
5. Mr. Smith had 96 pecks of oats in a bin, and gave his horse daily 4 quarts. How many days did the oats last him ?

## LESSON LII.

1.  $947382 \times 13$  equals how many? Divide 109439 by 11.
2.  $48763 \times 11 \times 4 \div 2 \div 2 = ?$   $8476 - 307$  three times  $= ?$
3.  $\frac{7}{10}$  of 49837600  $-\frac{1}{2}$  of 2430976 equals how many?
4. In 45616 quarts how many pecks?  
In 3848 quarts how many pecks?
5. A cistern holds 487 gallons; how many quarts would two cisterns of the same size hold?

## LESSON LIII.

1.  $5746980 \times 13$  equals how many?  
 $39556 \div 11$  equals how many?
2.  $4830000 - 57864$  five times equals how many?
3.  $\frac{3}{4}$  of 67356  $+\frac{1}{2}$  of 9932 equals how many?
4. In 486 bushels how many pecks? In 466 bushels?
5. A farmer carried 4080 quarts of milk to a cheese factory, and was paid at the rate of 2 cents a pint. How many cents did he receive?

## LESSON LIV.

1.  $47398 \times 13 \times 7$  equals how many?  
Divide 876601 by 11.
2.  $11 \times 5 \times 5 \times 9 \times 4 \div 2 \div 3 \times 12$  equals how many?
3.  $\frac{5}{8}$  of 29022  $+\frac{1}{2}$  of 247356 equals how many?
4. How much will 24 gallons of vinegar cost, at 4 cents per quart?  
How much will 36 gallons of vinegar cost, at 7 cents per quart?
5. Mr. Amos owned 1764 acres of land and sold  $\frac{1}{4}$  of it to his brother; how many acres had he left?



## LESSON LV.

1.  $\frac{4}{5}$  of 67176 +  $\frac{3}{10}$  of 438950 equals how many?
2. Divide 107748 by 12. Prove the quotient.
3. 4798000—1483769 three times equals how many?
4. What will 368 pecks of beans cost, at 7 cents a quart.  
What will 345 pecks of beans cost, at 9 cents a quart.
5. A grocer bought 34 pecks of peas, and sold them to customers at the rate of 2 quarts each. To how many customers did he sell them?

## LESSON LVI.

1.  $879828 \div 12 = ?$  Prove the quotient.
2.  $\frac{7}{8}$  of 237856— $\frac{1}{11}$  of 92477 equals how many?
3.  $67 \times 5 \times 3 \times 9 \times 4 \div 3 \div 2$  equals how many?
4. What is the cost of 124 bushels of apples, at 11 cents a peck, and 36 bushels of potatoes, at 7 cents a peck?
5. 579832 multiplied by 13 equals how many?

## LESSON LVII.

1.  $\frac{3}{10}$  of 849630 +  $\frac{4}{5}$  of 48706 equals how many?
2. Divide 565980 by 12 and prove the quotient.
3. 473869—23409 three times equals how many?
4. What is the cost of 124 quarts of plums, at 10 cents a pint?  
What is the cost of 63 quarts of berries, at 12 cents a pint?
5. Uzzie's father gave him some money and told him to give two dimes to each of his three brothers, and one dime to each of his two sisters, and keep two dimes himself. How many dimes did it require?

## LESSON LVIII.

1.  $\frac{3}{4}$  of 762923 —  $\frac{1}{11}$  of 185812 equals how many?
2. Divide 452988 by 12 and prove the result.
3.  $580 \times 10 \div 5 \times 11 \times 2 \div 11$  equals how many?
4. What is the cost of 6904 quarts, at 11 cents a gallon?
5. What is the cost of 8640 quarts, at 10 cents a peck?

## LESSON LIX.

1.  $\frac{1}{11}$  of 97383 +  $\frac{3}{4}$  of 188721 equals how many?
2. Divide 787860 by 12 and prove the quotient.
3.  $87468 - 9837$  five times equals how many?
4. What is the cost of 484 pecks, at 13 cents a bushel?  
What is the cost of 484 quarts, at 10 cents a pint?
5. Jennie paid one dollar for a pound of tea; she gave the merchant a two-dollar bill. How many dimes did he give her in change?

## LESSON LX.

1.  $\frac{3}{10}$  of 178460 —  $\frac{1}{11}$  of 287111 equals how many?
2. Divide 646248 by 12 and prove the quotient.
3.  $397 \times 10 \times 11 \div 10 \times 2 \times 8 \div 11 - 289$  equals how many?
4. What is the cost of 9840 pints of syrup, at 11 cents a quart?
5. Frank bought a sack of flour for \$1.25, a bushel of potatoes for \$.90, and three pounds of coffee for \$1.20. How much must he receive in change for a five-dollar bill?

## LESSON LXI.

1.  $\frac{1}{11}$  of 40546 +  $\frac{1}{12}$  of 367716 +  $84725 \div 22 = ?$
2.  $470986 \times 13$  equals how many?  
 $59847 \times 15$  equals how many?

3.  $634658 - 11437$  five times equals how many?
4. How many inches in 24 feet? In 360 feet?
5. There were 54 gallons of molasses in a hogshead, and 102 quarts leaked out. How many quarts remained?

## LESSON LXII.

1.  $57483 \times 16 =$  how many?  
 $483572 \times 14 =$  how many?
2.  $\frac{7}{8}$  of 4467483 —  $\frac{1}{4}$  of 6883440 equals how many?
3.  $9 \times 6 \times 6 \times 12 \times 9 \div 6 \div 3 \div 4$  equals how many?
4. In 48 yards how many feet? In 148 yards?
5. At a dime a pound, how many pounds of pork can be bought for 286 dollars?

## LESSON LXIII.

1.  $749837 \times 19 =$  how many?  
 $749837 \times 18 =$  how many?
2.  $\frac{4}{5}$  of 41895 +  $\frac{7}{11}$  of 65835 equals how many?
3.  $37840 - 10409$  three times equals how many?
4. How many rods in 7 miles? In 12 miles?
5. A man commenced business with \$8476. He gained \$1240 a year for 6 years. How much was he worth at the expiration of the time?

## LESSON LXIV.

1. Multiply 687489 by 24.  $59687 \times 23 =$  how many?
2.  $\frac{1}{11}$  of 278113 +  $\frac{1}{12}$  of 353160 equals how many?
3.  $87601 - 8716$  five times equals how many?
4. In 10536 inches how many feet? In 11868 inches?
5. How many pounds of sugar, at 9 cents a pound, can be bought for 18 dollars?

## LESSON LXV.

1. Multiply 987654 by 28.  $987654 \times 29 =$  how many?
2.  $\frac{1}{11}$  of 239294— $\frac{1}{12}$  of 138324 equals how many?
3.  $40368 \times 12 \div 4 = 1108$  equals what number?
4. In 29628 feet how many yards? In 26373 feet?
5. If a clerk's salary is 874 dollars a year, and his expenses 284 dollars, how many dimes does he save in one year?

## LESSON LXVI.

1. Multiply 878798 by 29.  $58679 \times 27 =$  how many?
2.  $\frac{4}{5}$  of 788832 +  $\frac{3}{5}$  of 6310656 = how many?
3.  $42879 - 6847$  six times equals how many?
4. In 11 miles how many rods? In 12 miles?
5. Martin put 12 cents each day in his bank for a year. How much did he save in one year of 365 days?

## LESSON LXVII.

1. Multiply 658479 by 33.  
 $658479 \times 34$  equals how many?
2. What is  $(\frac{3}{11}$  of 239272)—17352?
3.  $784 \div 4 \times 12 \times 7 \div 6 \div 2 \times 2 \times 13 + 478 + 10 =$  how many?
4. In 46 feet how many inches? In 142 feet how many inches?
5. A farmer sold 24 tons of hay, at \$12 a ton, and with the proceeds bought sheep, at \$3 each. How many sheep did he buy?

## LESSON LXVIII.

1.  $4786095 \times 37 =$  how many?  
 $4968740 \times 36 =$  how many?
2.  $\frac{7}{11}$  of  $705628 + 40378 - 6548$  equals how many?
3.  $49583 - 9843$  three times equals how many?
4. What is the cost of 630 yards of ribbon, at 14 cents a foot?

What is the cost of 275 yards of curbing, at 3 dollars a foot?

5. A man willed \$128000 to his wife and 3 children. They were to share equally. What amount did each receive?

## LESSON LXIX.

1. Multiply 376489 by 38.  
 $4936785 \times 38$  equals how many?
2.  $\frac{7}{8}$  of  $83536 + \frac{4}{11}$  of 68948 equals how many?
3.  $12 \times 12 \div 6 \div 4 \times 9 \div 3 \div 3 \times 8 \div 4 \div 2$  equals how many?
4. What will it cost to grade a street 3 miles in length, at 11 dollars a rod?
5. A man bought 26 pounds of cheese at 14 cents a pound, and 12 pounds of sugar at 11 cents a pound. How much more did the cheese cost than the sugar?

## LESSON LXX.

1. Multiply 987654 by 47.  
 $987654 \times 46$  equals how many?
2. What is  $(\frac{1}{12}$  of 97152) + 6748?
3.  $59876 - 8737$  six times equals how many?
4. What is the cost of 9480 feet of cloth, at 12 cents a yard?
5. What is the cost of 18267 feet of brass wire, at 13 cents a yard?

## LESSON LXXI.

1. Multiply 50897 by 48.  $96578 \times 49 =$  how many?
  2.  $\frac{1}{12}$  of 83532—5437 equals how many?
  3.  $(308476 \div 7 \times 10 \div 5) - 8000$  equals how many?
  4. What is the cost of 9216 inches of tape, at 10 cents a yard?
  5. What is the cost of 10764 inches of cloth, at 14 cents a yard?
- 

## LESSON LXXII.

1. Multiply 87695 by 46.  
 $987654 \times 43$  equals how many?
2.  $\frac{1}{12}$  of 20664 + 9824 equals how many?
3.  $\frac{1}{11}$  of 51271 —  $\frac{1}{12}$  of 20664 equals how many?
4. What is the cost of 864 pints of milk, at 6 cents per quart?

What is the cost of 864 quarts of syrup, at 75 cents per gallon?

5. A house cost \$4786; the lot on which it stands cost 9 times as much as the house. What is the value of the house and lot?

## LESSON LXXIII.

1.  $3908 \times 84 \div 7 \div 12$  equals how many?
2.  $\frac{1}{3}$  of 730809 = ?  $68990 \times 36 \div 6 \div 6 =$  how many?
3.  $18 \times 18 \div 6 \times 30 \div 5 \times 72 \div 9$  equals how many?
4. 630899—87889 five times equals how many?
5. What is the cost of 844 pecks, at 27 cents a bushel?  
What is the cost of 844 bushels, at 10 cents a peck?

## LESSON LXXIV.

1.  $67428 \times 72 \div 8 \div 3 \div 3$  equals how many?
2.  $\frac{3}{4}$  of 21304 +  $\frac{2}{3}$  of 11370 equals how many?
3.  $\frac{1}{12}$  of  $693048 \times 84$  equals how many?
4.  $768909 - 98099$  four times equals how many?
5. What will 204 pecks cost, at 17 cents a quart?  
What will 2040 quarts cost, at 17 cents a peck?

## LESSON LXXV.

1.  $132846 \times 64 \div 8 \div 2 = ?$   
 $90987 \times 21 \div 7 \div 3 =$  how many?
2.  $\frac{4}{5}$  of 65080 +  $\frac{3}{4}$  of 73908 equals how many.
3.  $9876543 - 998878$  two times equals how many?
4. What will 6506 pecks cost, at 9 cents per quart?  
What will 6592 quarts cost, at 9 cents per peck?
5. A had 9872 bushels of corn;  $\frac{3}{4}$  of it he kept for his own use, and sold the remainder at 25 cents per bushel. What did he receive for it?

## LESSON LXXVI.

1.  $\frac{3}{4}$  of 29032 +  $\frac{2}{11}$  of 66891 equals how many?
2.  $60987 \times 64 \div 8 \div 2$  equals how many?  
 $98709 \times 81 \div 9 = ?$
3.  $98 \times 10 \div 5 \times 25 \div 5 \times 64 \div 8 \div 2 =$  how many?
4. What is the cost of 864 quarts, at 13 cents per gallon?  
What is the cost of 128 gills, at 10 cents per quart?
5. A grocer bought 7200 gallons of oil;  $\frac{1}{4}$  of it leaked out, and he sold the remainder at 25 cents a gallon. What did he receive for it?

## LESSON LXXVII.

1. What is the difference between  $\frac{3}{4}$  of 3659436 and  $\frac{7}{11}$  of 859400?
2.  $90 \times 10 \div 5 \times 96 \times 8 \times 72 \div 12$  equals how many?
3.  $8937201 - 948346$  four times equals how many?
4. In 809060 mills how many cents? }  
In 809060 dimes how many cents? } Add answers.
5. A house cost \$3548, and the furniture cost  $\frac{3}{4}$  as much. What did the furniture cost?

## LESSON LXXVIII.

1.  $(562147 \times 98) - (562147 \times 49)$  equals how many?
2.  $\frac{7}{11}$  of 8975244 = how many?  
 $84736 \times 28 \div 7 \div 2 =$  how many?
3.  $85437 - 8765$  six times equals how many?
4. What is the cost of 23184 pints, at 10 cents a quart?
5. How many hats at \$12 apiece will it take to pay for 27 curtains at \$24 each?

## LESSON LXXIX.

1.  $\frac{11}{12}$  of 368940 —  $\frac{9}{10}$  of 78560 equals how many?
2.  $506 \times 30 \div 6 \times 25 \div 5 \times 84 \div 12 \times 121$  equals how many?
3.  $876568 - 165387$  two times equals how many?
4. In 809 pounds how many ounces? In 648 pounds?
5. What is the cost of 8096 quarts, at 9 cents a peck? }  
What is the cost of 840 pints, at 17 cents a quart? }  
Add answers.



## LESSON LXXX.

1.  $\frac{3}{4}$  of 811098 +  $\frac{1}{4}$  of 2034492 equals how many?
2.  $92 \times 25 \div 5 \times 64 \div 8 \times 96 \div 12$  equals how many?
3. \$80932.20 multiplied by 641 equals how many?
4. What is the cost of 9823 quarts, at 2 cents a pint?  
What is the cost of 9824 quarts, at 12 cents a peck?
5. How many caps, at \$7 apiece, will it take to pay for 893 loads of wood, at \$14 per load?

## LESSON LXXXI.

1.  $98767 \times 72 \div 12 \div 3$  equals how many?
2.  $\frac{1}{11}$  of 9796952 —  $\frac{1}{11}$  of 971736 equals how many?
3.  $678495 \times 137$  equals how many?
4. In 684 hundred-weight how many pounds?  
In 673 hundred-weight how many pounds?
5. How many coats, at 9 dollars apiece, will it take to pay for 709 pieces of cloth, at 63 dollars apiece?

## LESSON LXXXII.

1.  $89876 \times 64 \div 8 \div 4$  equals how many?
2.  $\frac{1}{3}$  of 5438464 —  $\frac{1}{18}$  of 947880 equals how many?
3.  $898 \times 25 \div 5 \times 30 \div 6 \times 35 \div 7$  equals how many?
4. How many ounces in 674 pounds? In 496 pounds?
5. How many pairs of boots, at 7 dollars a pair, will it take to pay for 97 cows, at 35 dollars each?

## LESSON LXXXIII.

1.  $93872 \times 72 \div 9 \div 2 \div 2$  equals how many?
2.  $\frac{1}{4}$  of 55120 —  $\frac{1}{4}$  of 28032 equals how many?
3.  $80723 - 9932$  six times equals how many?

4. In 584 tons how many hundred-weight?  
In 697 tons how many hundred-weight?
5. How many books at \$6 apiece, will it take to pay for 896 reams of paper at \$12 a ream?

## LESSON LXXXIV.

1.  $80936 \times 349 + \frac{3}{4}$  of 631071 equals how many?
2.  $169 \times 72 \div 8 \times 36 \div 6 \times 84 \div 12$  equals how many?
3.  $(987890 \times 809) - 1783654$  equals how many?
4. What is the cost of 98 pounds, at 9 cents an ounce?
5. How many barrels of flour at 7 dollars a barrel, will it take to pay for 972 cows at 49 dollars each?

## LESSON LXXXV.

1.  $768594 \times 307$  equals how many?
2.  $180 \times 60 \div 10 \times 72 \div 8 \times 25 \div 5$  equals how many?
3. What is the cost of 674 hundred-weight, at 45 cents per pound?
4. What is the cost of 6012 feet of chain, at the rate of 17 cents per yard?

What is the cost of 6012 feet of tape, at the rate of 2 cents an inch?

5. Mr. Walters had \$64320, and gave  $\frac{1}{4}$  of it to his wife and child. How much had he left?

## LESSON LXXXVI.

1.  $(\frac{1}{11}$  of 99792) +  $(8978 \times 509)$  equals how many?
2.  $982 \times 72 \div 9 \times 84 \div 12 \times 90 \div 10$  equals how many?
3.  $80967 - 9093$  five times equals how many?

4. What is the cost of 6231 feet of cloth, at 10 cents a yard?

What is the cost of 6231 feet of cloth, at 1 cent an inch?

5. A grocer bought 960 bushels of potatoes at \$1.10 a bushel, and sold them at 20 cents a peck. Did he gain or lose, and how much?

## LESSON LXXXVII.

1.  $(54626 \div 11) - (\frac{1}{12} \text{ of } 46212)$  equals how many?

2.  $180 \times 10 \div 5 \times 64 \div 8 \times 60 \div 10$  equals how many?

3.  $6935498 \times 809$  equals how many?

4. I bought 860 gallons of syrup at \$1.10 a gallon, and sold to customers at 25 cents a quart. How much money did I lose?

5. I bought 189 barrels of flour at 7 dollars a barrel, and sold it at 9 dollars a barrel. How much did I gain?

## LESSON LXXXVIII.

1.  $(3809 \times 607) - (\frac{1}{2} \text{ of } 7776)$  equals how many?

2.  $8972868 \times 64 \div 8 \div 4$  equals how many?

3.  $87988 - 9833$  six times equals how many?

4. How much will 8972 quarts of berries cost, at 9 cents a pint?	} Add ans.
How much will 584 pints of cherries cost, at 7 cents a quart?	

5. A grocer bought 640 bushels of pears at 13 cents a peck, and sold them at 25 cents a peck. How much did he gain?

## LESSON LXXXIX.

1.  $\frac{8}{11}$  of  $889867 \times 708$  equals how many?
2.  $7609 \times 84 \div 12$  equals how many?
3.  $89726 - 9808$  six times equals how many?
4. What is the cost of 80980 cwt., at \$10 per ton?  
What is the cost of 8098 cwt., at \$.10 per pound?
5. If 8 horses cost \$976, what will 32 horses cost at the same rate?

## LESSON XC.

1.  $1896 \times 72 \div 12 \times 88 \div 11$  equals how many?
2.  $\frac{1}{11}$  of 999647 —  $\frac{1}{12}$  of 80448 equals how many?
3. What will 463 pounds of coffee cost, at 1 cent an ounce?
4. A man bought 629 bushels of oats at 79 cents a bushel, and sold them at 40 cents a peck. What was his gain?
5. A speculator bought 963 gallons of oil, and lost  $\frac{1}{4}$  of it by leakage and transportation. How much did he receive for the remainder, at \$1.10 a gallon?

## LESSON XCI.

1.  $\frac{1}{12}$  of  $1161612 + \frac{2}{11}$  of 89058541 equals how many?
2.  $976389 \times 960 \div 12$  equals how many?
3.  $(\$8097.20 \times 10) + (\$76908.10 \times 9)$  equals how many?
4. What will be the cost of 97152 in. of wire, at 1 cent a foot?  
What will be the cost of 9714 ft. of rope, at 2 cents a yard?
5. A man bought 896 bushels of meal at 90 cents a bushel, and retailed it at 37 cents a peck. What was his gain?

## LESSON XCII.

1.  $987896 \times 432 \div 2 \div 12$  equals how many?
2.  $89726 - 4897$  six times equals how many?
3.  $909 \times 60 \div 10 \times 72 \div 9 \times 63 \div 9 \times 24 \div 12$  equals how many?
4. What will 689 pounds of starch cost, at 1 cent an ounce?
5. If 12 men earn \$85068 in one year, how many dollars will 48 men earn in the same length of time?

## LESSON XCIII.

1.  $67420 \times 96 \div 12 \div 4$  equals how many?
2.  $607 \times 84 \div 12 \times 96 \div 12 \times 60 \div 10$  equals how many?
3.  $80976 - 9802$  six times equals how many?
4. What is the cost of 674 pounds of tea, at 10 cents an ounce?
5. A and B bought a store. A paid \$80937, and B twice as much. How much did the store cost them?

## LESSON XCIV.

1.  $769389 \times 64 \div 8 \div 2$  equals how many?
2.  $7689 \times 990 \div 11$  equals how many?
3. What is the cost of 63704 quarts of turnips, at 13 cents a peck?  
What is the cost of 97152 inches of cornice, at 10 cents a foot?
4. If 7 horses cost \$4417, what will 28 horses cost at the same rate?
5. A merchant bought 389 bushels of corn at 79 cents a bushel, and sold it at 40 cents a peck. How much did he gain by the transaction?

## LESSON XCV.

1.  $6743 \times 840 \div 12 \div 10$  equals how many?
2.  $\frac{1}{5}$  of 971544 +  $\frac{1}{11}$  of 890758 equals how many?
3.  $420 \times 96 \div 12 \times 72 \div 12 \times 60 \div 10$  equals how many?
4. What is the cost of 796 hundred-weight of tobacco, at 23 cents per pound?
5. A man bought 780 bushels of salt at 80 cents a bushel, and sold it for 38 cents a peck. How much did he gain?

## LESSON XCVI.

1.  $1268 \times 960 \div 12 \div 4$  equals how many?
2.  $\frac{1}{4}$  of 91668 multiplied by 908 equals how many?
3.  $76897 - 9872$  six times equals how many?
4. In 320 minutes how many seconds? In 640 minutes?
5. A and B bought a store for \$802340. A paid  $\frac{2}{5}$  of it and B the remainder. What was the sum paid by each?

## LESSON XCVII.

1.  $\frac{3}{5}$  of 3948140 —  $\frac{1}{5}$  of 24156 equals how many?
2.  $67389 \times 96 \div 12 \div 2$  equals how many?
3. Reduce 84 hours to minutes. 96 hours.
4. What is the value of 962 pounds of choice fruit, at 6 cents an ounce?
- What is the cost of 962 quarts of berries, at 9 cents a pint?
5. A has \$76048. B has  $\frac{1}{2}$  as much, and C has  $\frac{3}{4}$  as much. How many dollars have all?

Add ans.

## LESSON XCVIII.

1.  $80962 \times 96 \div 12 \div 4$  equals how many?
2.  $\frac{7}{8}$  of 574641 multiplied by 709 equals how many?
3.  $709763 - 90878$  three times equals how many?
4. What is the value of 364 tons of metal, at \$10 a hundred-weight?
5. A man bought 880 bushels of grain at 90 cents a bushel, and sold it at 40 cents a peck. What was his gain?

## LESSON XCIX.

1.  $5023 \times 770 \div 11 \div 10$  equals how many?
2.  $\frac{1}{4}$  of 2298564 +  $\frac{1}{5}$  of 5171769 equals how many?
3.  $7869 \times 72 \div 12 \div 3$  equals how many?
4. Reduce 240 days to hours. Reduce 675 days to hours.
5. If 18 men can do a piece of work in 596 hours, how long will it take twice as many men to do the same work?

## LESSON C.

1.  $\frac{3}{4}$  of 10752 multiplied by 609 equals how many?
2.  $77932 - 9827$  three times equals how many?
3. What is the cost of 3280 quarts of mineral water, at 10 cents per gallon?  
 What is the cost of 3280 quarts of mead, at 10 cents a pint?
4. Reduce 673 weeks to days. Reduce 896 weeks to days.
5. Some speculators bought  $\frac{7}{8}$  of 679680 bushels of wheat at 90 cents a bushel, and sold it at \$1.40 per bushel. How much did they gain?

} Add ans.

## LESSON CI.

1.  $\frac{1}{11}$  of 986986— $\frac{1}{3}$  of 1071852 equals how many?
2.  $640 \times 72 \div 12 \times 36 \div 6 \times 40 \div 8 \times 72 \div 12$  equals how many?
3. In 580 months how many weeks? In 640 months?
4. Mr. Smith bought 872 bushels of rye at 85 cents a bushel, and sold it at 25 cents a peck. How much did he make?
5. The mines in Nevada, in one year, yielded \$962310 worth of silver, which was twice as much as Colorado, and three times as much as Arizona. How much did Colorado and Arizona yield?

## LESSON CII.

1.  $2094 \times 840 \div 12 \div 10$  equals how many?
2.  $\frac{3}{4}$  of 81846—5009—684—70 equals how many?
3.  $80 \times 10 \div 5 \times 64 \div 8 \times 72 \div 12$  equals how many?
4. What is the cost of 908460 tons of steel at \$2 a cwt.?
5. A had \$8040; B had  $\frac{3}{4}$  as much as A; C had two times as much as A and B together. How many dollars had each?

## LESSON CIII.

1.  $8906 \times 84 \div 12 \div 2$  equals how many?
2.  $\frac{3}{4}$  of 62676— $\frac{1}{4}$  of 89052 equals how many?
3. In 480 years how many months? In 749 years?  
In 480 months how many years? In 648 months?
4. What is the cost of 809240 tons of railroad iron, at \$1 a cwt.?
5. A man bought 890 pecks of plums, at 85 cents a peck. After canning, he retailed them at 25 cents a quart. How much did he make?



## LESSON CIV.

1.  $968748 \times 289$  equals how many?
2.  $\frac{5}{12}$  of 89052—18967 equals how many?
3. What is the cost of 536 quarts of beans, at 90 cents a peck?
- What is the cost of 129564 inches of tape, at 1 cent a foot?
4. If 12 horses cost \$3660.96, what will 586 horses cost at the same rate?
5. A man travels 11736 miles in 6 days; how many miles can he travel in 347 days?

} Add ans.

## LESSON CV.

NOTE.—If pupils understand the previous work, they are ready to commence Long Division.

1.  $\frac{5}{11}$  of 890604  $\times$  89 equals how many?
2. Divide 84357 by 13 and prove the quotient.
3. 183698—23768 three times equals how many?
4. A man spent 84 months traveling in Europe and Asia; how many years did it take him? How many weeks?
5. A man had \$197869. He built a block of 12 houses. each costing \$15786. How much money had he left?

## LESSON CVI.

1. Divide 59826 by 13 and prove the quotient.
2.  $\frac{1}{12}$  of 10524 multiplied by 309 equals how many?
3. A train ran 1600 miles in 3200 minutes; how many seconds was it in running the distance?
4. A dealer imported 504168 gills of wine, at 19 cents a pint. How many dollars did he pay for it?

## LESSON LXXVII.

1. What is the difference between  $\frac{3}{8}$  of 3659436 and  $\frac{7}{16}$  of 859400?
2.  $90 \times 10 \div 5 \times 96 \times 8 \times 72 \div 12$  equals how many?
3.  $8937201 - 948346$  four times equals how many?
4. In 809060 mills how many cents? }  
In 809060 dimes how many cents? } Add answers.
5. A house cost \$3548, and the furniture cost  $\frac{3}{4}$  as much. What did the furniture cost?

## LESSON LXXVIII.

1.  $(562147 \times 98) - (562147 \times 49)$  equals how many?
2.  $\frac{7}{18}$  of 8975244 = how many?  
 $84736 \times 28 \div 7 \div 2 =$  how many?
3.  $85437 - 8765$  six times equals how many?
4. What is the cost of 23184 pints, at 10 cents a quart?
5. How many hats at \$12 apiece will it take to pay for 27 curtains at \$24 each?

## LESSON LXXIX.

1.  $\frac{1}{2}$  of 368940 —  $\frac{2}{5}$  of 78560 equals how many?
2.  $506 \times 30 \div 6 \times 25 \div 5 \times 84 \div 12 \times 121$  equals how many?
3.  $876568 - 165387$  two times equals how many?
4. In 809 pounds how many ounces? In 648 pounds?
5. What is the cost of 8096 quarts, at 9 cents a peck? }  
What is the cost of 840 pints, at 17 cents a quart? }  
Add answers.

## LESSON LXXX.

1.  $\frac{3}{8}$  of 811098 +  $\frac{3}{8}$  of 2034492 equals how many?
2.  $92 \times 25 \div 5 \times 64 \div 8 \times 96 \div 12$  equals how many?
3. \$80932.20 multiplied by 641 equals how many?
4. What is the cost of 9823 quarts, at 2 cents a pint?  
What is the cost of 9824 quarts, at 12 cents a peck?
5. How many caps, at \$7 apiece, will it take to pay for 893 loads of wood, at \$14 per load?

## LESSON LXXXI.

1.  $98767 \times 72 \div 12 \div 3$  equals how many?
2.  $\frac{4}{11}$  of 9796952 —  $\frac{1}{11}$  of 971736 equals how many?
3.  $678495 \times 137$  equals how many?
4. In 684 hundred-weight how many pounds?  
In 673 hundred-weight how many pounds?
5. How many coats, at 9 dollars apiece, will it take to pay for 709 pieces of cloth, at 63 dollars apiece?

## LESSON LXXXII.

1.  $89876 \times 64 \div 8 \div 4$  equals how many?
2.  $\frac{7}{8}$  of 5438464 —  $\frac{1}{8}$  of 947880 equals how many?
3.  $898 \times 25 \div 5 \times 30 \div 6 \times 35 \div 7$  equals how many?
4. How many ounces in 674 pounds? In 496 pounds?
5. How many pairs of boots, at 7 dollars a pair, will it take to pay for 97 cows, at 35 dollars each?

## LESSON LXXXIII.

1.  $93872 \times 72 \div 9 \div 2 \div 2$  equals how many?
2.  $\frac{4}{5}$  of 55120 —  $\frac{3}{5}$  of 28032 equals how many?
3.  $80723 - 9932$  six times equals how many?

## LESSON CXII.

1.  $80716 \div 17$  equals how many? Prove the result.
2.  $976 \times 144 \div 12 \div 6$  equals how many?
3.  $7968 \times 90 \div 10 - 467 - 18$  equals how many?
4. How much will 804 bu. of barley cost, at 16 cents a peck?  
     How much will 804 pecks of barley cost, at 70 cents a bushel?
5. In one year an oil well yielded 89764 gallons of oil. Another well near by yielded  $\frac{3}{4}$  as much, which was sold at 19 cents per gallon. How much was received for it?

Add ans.

## LESSON CXIII.

1.  $708 \times 84 \div 21$  equals how many?
2.  $63 \times 18 \div 6 \times 72 \div 12 \times 64 \div 8$  equals how many?
3.  $809763 - 98765$  three times equals how many?
4. An importer received, by one steamer, 586455 feet of rosewood, at 50 cents a foot, and by another steamer, 586455 feet of mahogany, at 24 cents a foot. What was the amount of the bills?
5. A man gave his wife \$8082, his daughter  $\frac{3}{4}$  as much as his wife, and his son twice as much as his daughter. How much did he give to them all?

## LESSON CXIV.

1.  $640 \times 96 \div 24$  equals how many?
2.  $\frac{3}{4}$  of  $96888 \times \frac{7}{11}$  of 6501 equals how many?
3.  $\$89.90 \times 5 + \$70.70 \times 9$  equals how many?

4. What is the cost of 6231 feet of cloth, at 10 cents a yard?

What is the cost of 6231 feet of cloth, at 1 cent an inch?

5. A grocer bought 960 bushels of potatoes at \$1.10 a bushel, and sold them at 20 cents a peck. Did he gain or lose, and how much?

## LESSON LXXXVII.

1.  $(54626 \div 11) - (\frac{1}{11} \text{ of } 46212)$  equals how many?

2.  $180 \times 10 \div 5 \times 64 \div 8 \times 60 \div 10$  equals how many?

3.  $6935498 \times 809$  equals how many?

4. I bought 860 gallons of syrup at \$1.10 a gallon, and sold to customers at 25 cents a quart. How much money did I lose?

5. I bought 189 barrels of flour at 7 dollars a barrel, and sold it at 9 dollars a barrel. How much did I gain?

## LESSON LXXXVIII.

1.  $(3809 \times 607) - (\frac{1}{7} \text{ of } 7776)$  equals how many?

2.  $8972868 \times 64 \div 8 \div 4$  equals how many?

3.  $87988 - 9833$  six times equals how many?

4. How much will 8972 quarts of berries cost, at 9 cents a pint? } Add ans.

How much will 584 pints of cherries cost, at 7 cents a quart?

5. A grocer bought 640 bushels of pears at 13 cents a peck, and sold them at 25 cents a peck. How much did he gain?

## LESSON CXVII.

1. Divide 1371 by 17, and prove the result.
2.  $8795 \times 96 \div 24$  equals how many?
3.  $\frac{1}{2}$  of 6738528—659639—149378 equals how many?
4. What is the cost of 156864 ounces of crackers, at 10 cents per pound?
5. A man received 5380 barrels of apples;  $\frac{1}{4}$  were to be manufactured into cider, and the remainder were sold at \$1.10 per barrel. How much money did he receive for those sold?

## LESSON CXVIII.

1.  $9638 \times 75 \div 25$  equals how many?
2.  $\frac{7}{12}$  of 97092— $\frac{4}{11}$  of 89034 equals how many?
3. In 144048 months how many years? In 960840 months?
4. What is the value of 5600 quarts of green peas at 23 cents a peck, and 5600 quarts of green beans at 3 cents a quart?
5. James in walking one mile took 5280 steps; his father in walking the same distance took one step to every three steps of James. How many steps did his father take?

## LESSON CXIX.

1. What is the difference between  $\$718.64 \times 679$  and  $\$680.28 \times 584$ ?
2.  $13 \times 18 \div 6 \times 35 \div 7 \times 72 \div 9$  equals how many?
3. In 93768 weeks how many months? In 780364 weeks?
4. If a man buys 9876 gallons of oil at \$1.10 per gallon, and sells it at 35 cents a quart, what does he gain?

5. If the stock in A's store is valued at \$596325, B's stock  $\frac{2}{3}$  as much as A's, and C's  $\frac{2}{3}$  as much as B's, how much is C's stock worth?

## LESSON CXX.

1.  $1\frac{1}{2}$  of  $5892 \times 96 \div 16$  equals how many?
2.  $9763 \times 80 \div 10 \times 96 \div 12$  equals how many?
3. In 462140 days how many weeks? In 640892 days?
4. A druggist bought 6720 gallons of mineral water at 10 cents a gallon, and retailed it at 3 cents a quart. Did he gain or lose, and how much?
5. Henry's father gave him \$24, his mother gave him 90 dimes, and his sister gave him 150 cents. How many dimes did it all amount to?

## LESSON CXXI.

1.  $4987 \times 72 \div 24$  equals how many?
2.  $(985 \times 464) - (985 \times 348)$  equals how many?
3.  $8356 \times 78 \div 13$  equals how many?
4. In 18744 hours how many days? In 10248 hours?
5. A had \$40350, B had  $\frac{2}{3}$  as much as A; they gave it for a store and stock. How much did they pay?

## LESSON CXXII.

1.  $809678 - 88654$  three times equals how many?
2.  $8097 \times 84 \div 21$  equals how many? Prove.
3. In 374640 minutes how many hours? In 490740 minutes?
4. How many pieces of wire, one foot in length, can be cut from a piece that is 5896428 inches in length?
5. I paid 5 cents per quart for berries, and sold them at 50 cents per peck. How much did I gain on 189 pecks?

## LESSON CXXIII.

1.  $\frac{1}{15}$  of 47760 divided by 7 equals how many?
2.  $804 \times 96 \div 12 \div 4 \times 64 \div 8 \times 72 \div 9$  equals how many?
3.  $(\$908 \times 809) - (\$809.60 \times 10)$  equals how much?
4. In 490620 seconds how many minutes? In 394620 seconds?
5. What will be the cost of 8096 quarts of oats, at 10 cts. a peck?  
 What will be the cost of 8098 quarts of oats, at 2 cts. a pint?

} Add ans.

## LESSON CXXIV.

1.  $6308 \times 100 \div 25$  equals how many? Prove.
2.  $(\$809.10 \times 9) + (\$908.20 \times 8)$  equals how much?
3. In 64824 months how many years? In 7248 months?
4. How much will 64840 cwt. of straw cost, at \$9 a ton?  
 How much will 64840 cwt. of bran cost, at 1 cent a pound?
5. A has \$8020, B has  $\frac{1}{2}$  as much as A, and C has  $\frac{1}{3}$  as much as A and B. How many dollars have all?

} Add ans.

## LESSON CXXV.

1.  $5689 \times 84 \div 21$  equals how many? Prove.
2.  $109 \times 72 \div 12 \times 16 \div 8 \times 96 \div 8 \div 4$  equals how many?
3.  $\frac{1}{3}$  of  $104741 - 3456 - 456 - 56$  equals how many?
4. How many tons in 684780 cwt.? In 936720 cwt.?
5. A dealer bought 1816 bushels of potatoes; in transportation  $\frac{1}{4}$  of them were frozen, and he sold the remainder at 25 cents per peck. How much money did he make?



## LESSON CXXVI.

1.  $\frac{1}{14}$  of 13734— $\frac{1}{24}$  of 117720 equals how many?
2.  $8409 \times 144 \div 12 \div 6$  equals how many?
3. 70898—6929 four times equals how many?
4. How many months in 78940 weeks? In 56908 weeks?
5. A manufacturer bought 80976 gallons of oil at \$1.10 per gallon, but it not proving satisfactory, sold it at 36 cents per gallon. What was his loss?

## LESSON CXXVII.

1.  $8096 \times 96 \div 24$  equals how many?
2.  $5689 \times 96 \div 12 \div 4$  equals how many?
3.  $\frac{1}{12}$  of 186070—6374—231—80 equals how many?
4. How much will 54384 qts. of plums cost, at 39 cts. a peck?
- How much will 54384 qts. of cherries cost, at 5 cts. a pint?
5. B had \$84024; he gave  $\frac{1}{4}$  of it to his wife, and  $\frac{1}{4}$  as much to his son as to his wife. How much had he left?

} Add ans.

## LESSON CXXVIII.

1.  $8210 \times 72 \div 24$  equals how many? Prove.
2.  $\frac{1}{12}$  of 47544— $\frac{1}{8}$  of 55120 equals how many?
3.  $(\$809.10 \times 7) + (\$709 \times 908)$  equals how much?
4. How much will 2709 feet of cloth cost, at 50 cts. per yard?
- How much will 25 miles of fencing cost, at \$3.50 a rod?
5. A man bought 750 cows at \$49 each, and 75 horses at \$102 each. How much did he pay for all?

} Add ans.

## LESSON CXXIX.

1.  $7890 \times 96 \div 24$  equals how many?
2.  $(987 \times 809) + (358 \times 605)$  equals how many?
3.  $190 \times 70 \div 10 \times 72 \div 9 \times 36 \div 6 - 3$  equals how many?
4. What will 57680 cwt. of hay cost, at \$10 per ton?
- What will 57680 cwt. of lead cost, at 10 cents per pound?
5. A dealer bought 6392 gallons of vinegar; he kept  $\frac{1}{4}$  of it, and sold the remainder at 9 cents per quart. How much did he receive for it?

} Add ans.

## LESSON CXXX.

1.  $\frac{1}{2}$  of 1524675 —  $\frac{1}{3}$  of 146262 equals how many?
2.  $72389 - 9932$  three times equals how many?
3.  $(\$809.10 \times 9) - (\$623.25 \times 8)$  equals how much?
4. How many weeks in 483042 days? In 146244 days?
5. A merchant bought 6734 tons of coal at \$10 per ton, and sold it at \$15 per ton. How much did he gain?

## LESSON CXXXI.

1.  $\frac{1}{2}$  of 107520 —  $\frac{1}{3}$  of 95623 equals how many?
2.  $\$693 \times 609 - \$989 \times 37$  equals how much?
3.  $7889 \times 84 \div 21$  equals how many? Prove.
4. An importer paid 17 cents per yard for 876012 feet of rosewood moulding, and 2 cents an inch for 876012 feet of ebony moulding. What was the amount of his bill?
5. A dealer bought 672 bushels of potatoes at 89 cents per bushel, and 598 bushels at \$1.00 per bushel. How much did he pay for all?

## LESSON CXXXII.

1.  $\$809 \times 908 - \$209 \times 700$  equals how much?
2.  $969 \times 90 \div 10 \times 84 \div 12 \times 72 \div 9 \times 30 \div 6$  equals how many?
3. Take  $\frac{1}{4}$  of  $8798 \times 84$ .
4. How many days in 96864 hours?
5. A speculator bought 890 bushels of rye at 70 cents per bushel, and 620 bushels at 65 cents per bushel, and sold all at 25 cents per peck. Did he gain or lose, and how much?

## LESSON CXXXIII.

1.  $\frac{1}{4}$  of 20160 —  $\frac{1}{11}$  of 62711 equals how many?
  2.  $6780 \times 96 \div 24$  equals how many? Prove.
  3. How many hours in 232020 minutes?
  4. What is the cost of 6840 cwt. of coal, at  $\$7.20$  per ton?
- What is the cost of 6840 cwt. of coal, at  $\$7$  per ton?
- $\left. \begin{array}{l} \text{per ton?} \\ \text{per ton?} \end{array} \right\}$ 
Add ans.
5. I bought 890 bushels of wheat at  $\$1.00$  per bushel, and sold it at 23 cts. per peck. Did I gain or lose, and how much?

## LESSON CXXXIV.

1.  $7968 \times 72 \div 24$  equals how many?
2.  $199758 - 99879$  two times equals how many?
3.  $938 \times 64 \div 8 \times 72 \div 9 \times 60 \div 10$  equals how many?
4. A merchant bought 8061 feet of satin at  $\$1.10$  per yard, and at another time 8061 feet at the rate of  $\$.03$  an inch. What was the amount of the bills?
5. A man having an estate of  $\$63980$ , willed  $\frac{1}{4}$  of it to an asylum, and the remainder to an academy. What was the amount given to each?

## LESSON CXXXV.

1.  $(908 \times 908) - (700 \times 809)$  equals how many?
  2. Take  $\frac{1}{11}$  of  $(896 \times 84)$ .
  3. What is  $\frac{1}{12}$  of 10896 multiplied by 109?
  4. What is the cost of 6320 cwt. of coal, at \$10 per ton?
- } Add ans.
- What is the cost of 6320 cwt. of pork, at \$.10 per pound?
5. Mr. Dodd bought 890 bushels of wheat at 90 cents per bushel, 787 bushels at 89 cents per bushel, and sold it all at 27 cents per peck. What was his gain?

## LESSON CXXXVI.

1.  $(935 \times 909) - (938 \times 809)$  equals how many?
2.  $\frac{1}{12}$  of 67428  $-\frac{3}{11}$  of 59741 equals how many?
3.  $(\frac{1}{33}$  of 184897)  $+ 647 + 17$  equals how many?
4. How many minutes in 370560 seconds?
5. I bought 14 cows at \$23 each, 7 horses at \$96 each, 34 oxen at \$57 each, and 300 sheep at \$2 each. I sold all for \$3842. Did I gain or lose, and how much?

## LESSON CXXXVII.

1.  $(10544 \div 16) - (8127 \div 21)$  equals how many?
  2.  $\frac{1}{12}$  of 52164  $+\frac{1}{11}$  of 86888 equals how many?
  3. In 14496 units how many dozen? In 9708 units?
  4. What is the cost of 96542 quarts of milk, at 3 cts. a pint?
- } Add ans.
- What is the cost of 42080 quarts of bran, at 10 cents a peck?
5. A had \$89060; B had  $\frac{2}{3}$  as much as A, and C had  $\frac{1}{2}$  as much as B. How much had all?

## LESSON CXXXVIII.

1.  $\frac{1}{4}$  of 12384— $\frac{1}{8}$  of 9804 equals how many?
2.  $7848 \times 64 \div 8 \times 72 \div 12$  equals how many?
3. How many gross in 96444 dozen?
4. What is the cost of 802 miles of wire fencing,  
at 50 cents a rod? } Add ans.  
What is the cost of 9768 feet of iron fencing, at  
\$10 a yard?
5. A merchant bought 640 bushels at 18 cents a peck,  
and retailed it at 39 cents a peck. How much did he  
gain?

## LESSON CXXXIX.

1.  $\frac{2}{5}$  of  $8667 \times 100 \div 25$  equals how many?
2.  $95984 - 7896$  three times equals how many?
3. How many great gross in 44460 gross? In 3600 gross?
4. What is the cost of 65392 oz. of lead, at 40 cts. per lb.?
5. A bought three houses, paying \$4308 for one, \$3890  
for another, and \$5000 for another. He sold them all for  
\$15000. What was his gain?

## LESSON CXL.

1.  $\frac{1}{11}$  of 8899 multiplied by 809 equals how many?
2. 762 multiplied by 483 and divided by 21=how many?
3. In 8960 great gross how many gross?
4. What is the cost of 96224 ounces of soda, at \$.01 per  
pound?
5. A man bought 860 bushels of corn at 72 cents per  
bushel, 972 bushels at 80 cents a bushel. He sold it all at  
\$1.00 per bushel. What was his gain?

## LESSON CXLI.

1. Take  $\frac{1}{4}$  of 967 multiplied by 96.
2.  $(\$890.63 \times 10) + (\$784.96 \times 9)$  equals how many?
3. In 5876 gross how many dozen? In 648 gross?
4. What is the cost of 82463 lbs., at \$.01 an oz.? } Add  
What is the cost of 972904 qts., at \$.10 a pk.? } ans.
5. If 12 men can do some work in 401900 minutes, how long will it take 24 men to do the same work?

## LESSON CXLII.

1.  $(\$760.08 \times 10) + (\$909.90 \times 9)$  equals how many?
2. Take  $\frac{1}{4}$  of 432 multiplied by 96.
3. How many units in 1440 dozen? In 3612 dozen?
4. What is the cost of 9708 in. of ribbon, at \$.10 a foot? }  
What is the cost of 544 ft. of ribbon, at \$.01 an inch? }  
Add answers.
5. If 18 men can build a wall in 237 days, how long will it take 6 men to build it?

## LESSON CXLIII.

1.  $(\$7898.90 \times 98) + (\$8987.96 \times 99)$  equals how many?
2.  $7689789 - 987298$  equals how many? Prove the answer.
3. What is the cost of 850152 gross of buttons, at 10 cents a great gross?
4.  $\frac{5}{12}$  of 971544 +  $\frac{5}{11}$  of 890758 equals how many?
5. A grain merchant bought 780 bushels of grain at 80 cents a bushel, and 963 bushels at 88 cents a bushel. He sold all at one dollar a bushel. What was his gain?

## LESSON CXLIV.

1. 769 is to be subtracted three times from ( $\frac{1}{4}$  of 10005).
2.  $\frac{3}{4}$  of  $492135 + (5896 \times 709) + (4563640 \div 5) = ?$
3. A druggist bought brandy at \$1.75 per gallon, and retailed it at 55 cents a quart. How much had he made when his sales amounted to 1028 gallons?
4. Marson had \$75.75; John  $\frac{2}{3}$  as much as Marson, and Andrew had as much as both the others. How much had all?
5. A grocer bought tomatoes at 80 cents a bushel, and sold them at 25 cents a peck. How much did he gain on 189 bushels?

## LESSON CXLV.

1. Find the difference between 986 multiplied by 479, and 783 multiplied by 78.
  2.  $(98764 \times 27) + (39843 \times 59) + (3894 \times 478) = ?$
  3.  $\frac{1}{18}$  of  $540000 \div 10 \div 5 \div 2 \div 10$  equals how many?
  4. Mr. Thompson received 675 car-loads of grain, each car containing 2007 bushels. He shipped it to Europe, where it sold at \$1.25 per bushel. How much did he receive for it?
  5. What is the cost of 6504 bushels of peas, at 17 cents a peck?
- What is the cost of 7200 quarts of fruit, at 75 cents a peck?
- }

Add ans.

## LESSON CXLVI.

1. Find the product of  $\frac{1}{18}$  of 4500 multiplied by 680.
2. From 200000 subtract 4892 two times.

3. What is the cost of 580 pecks of beans, at 5 cts. per quart? }  
 What is the cost of 764 pounds of tea, at 4 cts. per ounce? } Add ans.
4. What is the cost of 486 gallons of syrup, at 15 cents per quart? }  
 What is the cost of 562 bushels of turnips, at 10 cents per peck? } Add ans.
5. A has \$684.25 ; B has  $\frac{2}{3}$  as much, and C has  $\frac{1}{2}$  as much as A and B. How much have all?

## LESSON CXLVII.

1. Find the difference between 879 multiplied by 809, and 987 multiplied by 107.
2.  $\frac{3}{4}$  of 18342 multiplied by 609 equals how many?
3.  $(73469 \times 97) + (97558 \times 8) + (645 \times 800) =$  how many?
4. A merchant received from Rio Janeiro 22608 oz. of coffee at 35 cents per pound, and 1728 in. of mahogany moulding at 10 cents per foot. What was the amount of his bill?
5. A drover had 2875 sheep. He sold  $\frac{2}{3}$  of them at \$2.50 each, and the remainder at \$3 each. How much did he receive for them?

## LESSON CXLVIII.

1.  $\frac{1}{2}$  of 83676 +  $\frac{1}{4}$  of 14496 equals how many?
2. Find the difference between \$608.08 multiplied by 529, and \$670.94 multiplied by 309.
3.  $\frac{1}{2}$  of 14508 multiplied by 97 equals how many?
4. How much will 416 quarts of wine cost, at 75 cents per gallon?



How much will 8560 quarts of green peas cost, at 10 cents per peck?

5. A stock company invested \$1400000 in a gold mine. Their expenses the first year were \$4578 more than the gold obtained from the mine. What did the mine cost at the close of the year?

## LESSON CXLIX.

1.  $(795 \times 908) + (8797 \times 706)$  equals how many?
  2. From 1000000 take 43786 three times.
  3. Divide  $\frac{3}{4}$  of 63054 by 14.
  4. What is the cost of 101520 gross of pencils, at \$2.70 a great gross?  
 What is the cost of 8471 gross of spools of thread, at \$.60 per dozen?
- } Add ans.
5. A man's house was valued at \$5675; his barn at \$1000. They were insured for  $\frac{3}{4}$  of their value. What was the value of the insurance?

## LESSON CL.

1.  $\frac{1}{2}$  of 180160 +  $\frac{1}{3}$  of 24144 equals how many?
2. Divide  $\frac{3}{4}$  of 43560 by 20.
3. A man traveled 36 days by boat, and 14 days by cars. How many hours was it?
4. A dealer bought 84 great gross of knives, at \$24.50 a gross, and 84 gross of spoons, at \$100 a great gross. What was the amount of his bill?
5. A man's estate of \$46326 was divided as follows:  $\frac{1}{3}$  of it to each of three sons, and remainder equally between two daughters. What was each daughter's share?

## LESSON CLI.

1.  $(9486 \times 986) + (9587 \times 90) - \frac{1}{4}$  of 487690 equals how many?
2.  $7 \times 10 \times 9 \times 6 \times 5 \times 8 \div 4 \div 3 \div 5 \div 84$  equals how many?
3.  $\frac{1}{24}$  of 81720 multiplied by 105 and divided by 21 equals how many?
4. What is the cost of 586455 feet, at \$1.15 a yard? }  
 What is the cost of 586455 feet, at 5 cents an inch? }  
 Add answers.
5. Mr. Trask bought 365 gallons of oil, at 15 cents a gallon. He sold it all at the rate of 5 cents a quart. What did he make?

## LESSON CLII.

1.  $\frac{1}{14}$  of 194404 +  $\frac{2}{11}$  of 93159 +  $\frac{5}{12}$  of 94308 = how many?
2.  $7893 \times 500 \div 25 \div 10$  equals how many?
3.  $6963846 - 909762$  four times equals how many?
4. What will be the cost of 175 dozen knives, at 10 cents apiece?
5. If 24 men can do a piece of work in 42864 hours, how long will it take 8 men to do the same work?

## LESSON CLIII.

1.  $\frac{1}{9}$  of 16264 +  $\frac{7}{10}$  of 5940 +  $(8643 \times 9)$  = how many?
2. Find the difference between 576 multiplied by 709, and 908 multiplied by 809.
3. 7684 is to be subtracted four times from  $\frac{1}{3}$  of 636519.
4. In 520 score of pins, how many pins are there?

5. A man bought 164 bushels of potatoes at 89 cents per bushel, and sold them at 25 cents a peck. What was his gain?

## LESSON CLIV.

1. From the product of 976 multiplied by 789 take the product of 897 multiplied by 567.

2.  $(\$693.45 \times 75) + (\$67.84 \times 987)$  equals how many?

3. 456709 gallons run into a reservoir in an hour, and 379805 gallons run out. How many quarts remain in the reservoir at the end of 7 hours?

4. What is the cost of 1728 bushels, at 18 cents per peck?

What is the cost of 9864 quarts, at 25 cents per peck?

5. A man's salary is \$5600 a year; his expenses are \$189 a month. How much does he save in three years?

## LESSON CLV.

1. What is the product of  $\frac{3}{4}$  of 61136 multiplied by  $\frac{1}{14}$  of 912?

2. Take 7864321 from 9725442, and prove their difference.

3. Find the difference between \$607.30 multiplied by 607, and \$536.90 multiplied by 380.

4. What is the cost of 540 gallons of French brandy, at 96 cts. a quart?

What is the cost of 8640 inches of ribbon, at 10 cts. a foot?

} Add ans.

5. A and B start from the same place and travel in opposite directions; A at the rate of 70 miles a day, and B at the rate of 100 miles a day. How far apart will they be in 78 days?

## LESSON CLVI.

1. How much more is \$9.15 multiplied by 479, than \$7.03 multiplied by 609?

2. Divide  $\frac{1}{3}$  of 26841 by 21.

3. Find the difference between 807 times 987, and 709 times 889?

4. What is the cost of 89760 cwt. of coal, at \$9 per ton?

What is the cost of 89760 cwt. of hay, at \$.01 per pound?

Add ans.

5. A man bought 4 houses at \$3270 apiece; he gave in exchange 3 lots of merchandise, each valued at \$3642, and the remainder in cash. How much cash did he give?

## LESSON CLVII.

1.  $144 \times 12 \times 16 \times 72 \div 9 \div 4 \div 3 - 13 - 7 =$  how many?

2.  $(348 \times 809) + (7896 \times 9) - (5948 \times 6) =$  how many?

3. Find the difference between \$2.08 multiplied by 679, and \$9.03 multiplied by 509.

4. During one year a grocer retailed 4864 pints of milk at 5 cents a quart, and 3256 quarts of beans at 10 cents per peck. What was the amount of money taken?

5. A man bought 3 houses, and gave in payment a farm valued at \$6548.70, and \$1500 in cash. What was the value of each house?

## LESSON CLVIII.

1.  $8460 \times 15 \times 10 \times 12 \div 5 \div 5 \div 3 - 132 - 17 - 7$  equals how many?

2. Divide  $\frac{7}{4}$  of 40824 by 21.

3. What is the product of  $\frac{1}{4}$  of  $(397 \times 144)$  multiplied by 70?

4. A man bought 89 bushels of beets at 87 cents a bushel, 74 bushels, at 93 cents a bushel, to manufacture into sugar. If he had sold the beets at \$1.08 per bushel, it would have been as much as he received for the sugar. How much did he get for the sugar?

5. Two men start from Chicago, and travel in opposite directions, one at the rate of 275 miles a day, the other at the rate of 408 miles a day. How many rods are they apart at the end of 6 days?

## LESSON CLIX.

1. 684 is to be subtracted two times from  $\frac{1}{4}$  of 4200.

2. What is the product of  $\frac{1}{4}$  of 97686 by 75?

3.  $(\$6.03 \times 689) + (\$98.09 \times 9) - (\$89.90 \times 9) =$  how many?

4. What is the cost of 8096 quarts of vinegar, at 40 cts. per gallon?	} Add ans.
What is the cost of 8096 quarts of syrup, at the rate of 5 cts. per pint?	

5. Two steamers pass each other in mid-ocean, one going at the rate of 12 miles an hour, and the other at the rate of 15 miles an hour. How many miles apart are they in two days?

## LESSON CLX.

1. The sum of 896, 954 and 763, multiplied by the product of 2 and 36 equals how many?

2. Find the difference between 980 times \$976, and 876 times \$870.10.

3.  $\frac{1}{17}$  of 152592 multiplied by 607 equals how many?
4. How much must I pay for 89640 gills of wine, at 80 cents a pint, and 640 quarts of beer, at 5 cents a pint?
5. I paid \$80.80 for a harness; three times as much for a horse, and five times as much for three vehicles as for the harness and horse. How many dollars did I pay for all?

## LESSON CLXI.

1.  $(\$809.09 \times 9) + (\$90.90 \times 9) - (\$89.89 \times 9)$  equals how many?
2. 987 is to be subtracted four times from  $\frac{2}{3}$  of 68337.
3. Divide  $\frac{1}{15}$  of 40080 by 16.
4. How much must I pay for 672 gallons of oil at 5 cts. per quart, and 684 quarts of wine at 80 cents a pint?
5. From the base to the summit of a mountain is 63480 feet. If I travel the distance and return, how many yards have I traveled?

## LESSON CLXII.

1.  $9763 \times 144 \div 12 \times 72 \div 9 \times 84 \div 7 =$  how many?
2.  $\frac{1}{20}$  of  $40160 + (809 \times 879)$  equals how many?
3.  $\frac{1}{3}$  of  $63054 \times 28 \div 14$  equals how many?
4. How much must I pay for 14208 ounces of starch at 15 cents a pound, and 4000 cwt. of hay at \$5 a ton?
5. I lost in trade \$4800. If I lay by \$24 a week, how many weeks will it take me to recover from my loss?

## LESSON CLXIII.

1.  $6408 \times 96 \div 24 \div 2$  equals how many?
2.  $100000 - 13467$  three times equals how many?

3.  $\frac{1}{4}$  of  $8946 \times 84$  equals how many?

4. How much must I pay for 129 pounds of dried apples at 8 cents per pound, and 420 cwt. of meal at 3 cents per pound?

5. I bought 89012 gallons of oil;  $\frac{1}{4}$  of it leaked out, and I sold the remainder at \$1.10 per gallon. How much did I receive for it?

## LESSON CLXIV.

1.  $198 \times 483 \div 21 \div 23$  equals how many?

2.  $\frac{1}{4}$  of  $28104 \times 96$  equals how many?

3.  $\frac{1}{2}$  of 3980 multiplied by 109 equals how many?

4. How much must I pay for 680 tons of hay at 50 cents a cwt., and 50 bushels of oats at 10 cents per quart?

5. Bought 806 bushels of wheat at 90 cents per bushel, and sold all at 40 cents per peck. What was the gain?

## LESSON CLXV.

1.  $234 \times 252 \div 14 \div 9$  equals how many?

2. What is the difference between 732 multiplied by 879, and 706 multiplied by 809?

3.  $\frac{1}{4}$  of  $(1968 \times 96) - \frac{1}{2}$  of 9708 equals how many?

4. A had \$80984, B had  $\frac{3}{4}$  as much as A, and C had as much as B + \$1098. How many dollars had C?

5. What is the cost of 880 pecks, at \$.10 per quart? }  
What is the cost of 880 pecks, at \$10 per bushel? }

Add answers.

## LESSON CLXVI.

1.  $238 \times 144 \div 18$  equals how many?

2.  $1000000 - 2346324 - 463876 - 6489 - 19$  equals how many?

3. Find the difference between \$9.09 multiplied by 89, and \$8.04 multiplied by 67.

4. What is the cost of 1408 pecks, at 8 cents per quart ? }  
 What is the cost of 5992 quarts, at 5 cents per pint ? }

Add answers.

5. If 18 men can dig a ditch in 202 hours, how long will it take 9 men ?

### LESSON CLXVII.

1.  $\frac{1}{12}$  of 9048 multiplied by 908 equals how many ?  
 2. What is the product of  $\frac{1}{11}$  of 9856 multiplied by  $\frac{1}{12}$  of 11616.

3. If 24 lots cost \$19219.20, what will 30 lots cost at the same rate ?

4. A man bought 638 bushels at 78 cents per bushel, and 780 bushels at 89 cents a bushel ; he sold at \$1.20 per bushel. How much did he gain ?

5. A had \$702180, B had  $\frac{1}{2}$  as much as A, and C  $\frac{2}{3}$  as much as B. How many dollars had B ?

### LESSON CLXVIII.

1.  $328 \times 625 \div 25 \div 5$  equals how many ?  
 2. From the sum of 72346, 67896, 96489, 43987 take  $\frac{1}{11}$  of 889867.

3. A confectioner retailed 768 pints of peanuts at \$.10 per quart, and 97 pecks of filberts at \$.20 per quart. How much did he receive for them ?

4. A had \$1056 ; B had  $\frac{1}{2}$  as much as A, and C had  $\frac{1}{3}$  as much as A and B. How many dollars had C ?

5. If 12 boys can pile 10764 cords of wood in one winter, how many cords can 24 boys pile ?



## LESSON CLXIX.

1.  $232 \times 225 \div 25 \div 3$  equals how many?
2.  $\frac{1}{4}$  of 848 multiplied by 96 equals how many?
3. What is the product of  $\frac{1}{11}$  of 13836 multiplied by  $\frac{1}{11}$  of 6677?
4. What is the cost of 4608 pecks of grass seed, at \$5 per bushel?
- What is the cost of 74556 inches of tape, at \$.05 per foot?
5. President Garfield died in the year 1881, at the age of 49. In what year was he born?

} Add ans.

## LESSON CLXX.

1.  $\frac{1}{12}$  of 2508 multiplied by 209 equals how many?
2.  $\frac{1}{4}$  of 4318— $\frac{1}{3}$  of 1672 equals how many?
3. What is the difference between \$9.70 multiplied by 809, and \$8.08 multiplied by 657?
4. I had 1140 gallons of oil;  $\frac{2}{3}$  of it leaked out, and I sold the remainder at 50 cents per quart. How much did I receive for it?
5. Three men sunk an oil-well, at a cost of \$24890. The first agreed to pay 6384 dollars; the second agreed to pay twice as much, and the third the remainder. How much did the third pay?

## LESSON CLXXI.

1. 632 multiplied by 684 and divided by 19 and by 9 = ?
2.  $10000 - 876$  three times equals how many?
3.  $\frac{1}{18}$  of  $129552 - 4372 - 2468 - 687$  equals how many?
4. What cost 80367 feet of ribbon, at 25 cents a yard? }  
What cost 80369 feet of ribbon, at 2 cents an inch? }
5. A western farmer raised 89798 bushels of corn. He sold  $\frac{1}{2}$  of it at 37 cents per bushel, and the remainder at 50 cents per bushel. How much did he receive for it?

Add answers.

## LESSON CLXXII.

1.  $(1976 \times 68 \div 17) - (976 \times 90 \div 18)$  equals how many?
2.  $7000 - 984$  six times equals how many?
3. What is the sum of  $\frac{1}{17}$  of 1372, and  $\frac{1}{18}$  of 216225?
4. If 12 horses eat 36 pecks of oats in one day, how many bushels will 800 horses eat?
5. I sent from Pittsburg 1420 gallons of oil;  $\frac{1}{4}$  of it leaked out, and I sold the remainder at 37 cents per quart. How much did I receive for it?

## LESSON CLXXIII.

1.  $(\$68.20 \times 89) - (\$22.80 \times 75)$  equals how much?
2. What is the difference between 760 multiplied by 268, and 968 multiplied by 89?
3.  $\frac{1}{18}$  of 8096 multiplied by 76 equals how many?
4. If 24 horses eat 72 pecks of oats in a day, how many bushels of oats will 724 horses eat?
5. How many months will it take to save a fortune, amounting to \$24000, if \$25 is saved every week?

## LESSON CLXXIV.

1.  $(8390 \times 908) - (870 \times 809)$  equals how many?
2.  $(37224 \div 18) - \frac{1}{4}$  of 8904 equals how many?
3.  $90000 - 2009$  three times equals how many?
4. A tailor bought 25 bales of cloth, each bale containing 30 pieces, and each piece 75 yards. How many yards did he buy?
5. A merchant bought 890 pecks of plums, at 89 cents per peck; before they were sold,  $\frac{1}{4}$  of them had spoiled, and he received 1 dollar a peck for the remainder. Did he gain or lose, and how much?

## LESSON CLXXV.

1.  $\frac{1}{15}$  of 92948 —  $\frac{1}{18}$  of 15804 equals how many?
2. 493 multiplied by 384 and divided by 24 and by 8 = ?
3. 70000 — 1009 three times equals how many?
4. A man bought 809 bushels at 80 cents per bushel, and sold at 25 cents a peck. What was his gain?
5. A had \$83220, B had  $\frac{3}{4}$  as much as A, and C had  $\frac{1}{2}$  as much as A and B. How many dollars had C?

## LESSON CLXXVI.

1.  $\frac{1}{15}$  of 350569 +  $\frac{1}{17}$  of 263024 equals how many?
2. 39873 — 15687 as many times as possible, and multiply the remainder by 183. What is the product?
3. 4592 multiplied by 57 and divided by 19 and by 3 = ?
4. What is the cost of 9708 great gross, at \$10 per gross? } Add ans.
- What is the cost of 9708 dozen, at \$.10 per gross? } Add ans.
5. A man having \$5000, bought 25 cows at \$47.50 each; 12 horses at \$175 each. After paying for his stock, how much had he left?

## LESSON CLXXVII.

1. 39801 — 17497 as many times as possible, and multiply the remainder by 79. What is the product?
2. 394 multiplied by 256 and divided by 16 and by 8 = ?
3.  $\frac{1}{12}$  of (87708 + 96) equals how many?
4. A farmer owed \$3489. He gave in payment 10 horses worth \$96.50 each, and \$2000 in cash. How much does he still owe?
5. If 14 men can make 113372 bricks in one month, how many bricks can 7 men make in the same length of time?

## LESSON CLXXVIII.

1. What is the difference between \$6.07 multiplied by 709, and \$5.08 multiplied by 608?

2. What is the product of  $\frac{1}{12}$  of 6228 multiplied by  $\frac{1}{12}$  of 11427?

3. In a factory there are 449840 feathers to be made into dusters; they were purchased by the score. How many score were there in the factory?

4. If 12 cows eat 12 pecks of bran in a day, how many bushels will 360 cows eat?

5. 60000—10010 four times equals how many?

## PROMISCUOUS EXAMPLES.

1. In 876400 pounds how many cwt.?

2. The circumference of the earth is 25000 miles. How many rods does a man travel in passing over  $\frac{1}{4}$  the distance?

3. At the rate of five cents per pound, what will 1 ton of bran cost?

4. ( $\frac{3}{4}$  of 13154304) + 640217—38476—549 = ?

5. Two men are 768 miles apart, and are traveling toward each other; one goes 9, and the other 7 miles an hour. In how many days will they meet?

6. A man bought 26 tons of hay, paying at the rate of \$.05 per pound. What did the hay cost him?

7. If 9 cows worth 47 dollars each, 8 horses worth 175 dollars each, and \$1275.25 are given in exchange for a farm, what is the value of the farm?

8. ( $\frac{1}{3}$  of 8695127) multiplied by ( $\frac{1}{12}$  of 8256)?

9. How many bushels of rye at 25 cents a bushel, can be bought for 1500 bushels of corn @ 50 cents a bushel?

10. In driving around a farm 5 miles square, what would be the distance in rods passed over ?

11. A man owning a cranberry field, values the crop at 17 dollars a barrel. He exchanges it for stock; 34 cows at 45 dollars each, 85 sheep @ \$3.40 each, and 2 horses @ \$136 each. How many barrels of cranberries did he have to exchange ?

12. How many days are there in the Spring months ?

13. What is the amount of the following bill ?

10 lbs. of Sugar, @ \$.11.

20 lbs. of Flour, @ .05.

2 lbs. of Tea, @ 1.10.

14. What is the difference between ( $\frac{1}{2}$  of 18494850) and  $(8906 \times 19 - 8875)$ .

15. Two men start from the same point, and travel in opposite directions, one at the rate of 75 miles a day, and the other at the rate of 100 miles a day. How far apart are they at the end of 14 days ?

16. What is the quotient of 6740083 divided by 16 ? What remainder ?

17. The distance from the north to the south pole is about 12500 miles. If an iceberg can move 25 miles a day, in how many days would it move half the distance ?

18. Take 8079 six times, from 10000000.

19. Divide the sum of 657, 4893, 4560, 8490, by 25.

20. How many more hours are there in the summer, than in the winter months ?

21.  $(\frac{1}{2}$  of 157176) +  $(\frac{1}{3}$  of 113012) -  $(\frac{1}{4}$  of 10948) = ?

22. How many barrels would it take to contain 560 bushels of apples, if each barrel holds 10 pecks ?

23. If a horse cost 100 dollars, a cow half as much, and some land 8 times as much as both the horse and cow, what is the worth of the land ?

24. If 10 bushels of apples are worth 20 bushels of pota-

toes, @ 75 cents per bushel, what is one barrel of apples worth?

25. What is the product of 84796 multiplied by ( $\frac{1}{12}$  of 1440—31)?

26. What is the cost of 215472 sheets of paper, @ \$.20 a quire?

27. What is the cost of 250 kegs of tobacco, each keg containing 57 pounds, at 19 cents per lb.?

28. Bought a farm for \$5680, which was \$750 less than it was worth; what was the farm worth?

29. ( $\frac{1}{12}$  of 16515639)—( $\frac{1}{12}$  of 847366) = ?

30. How many days are there in the fall months?

31. If 12 tons of coal cost 144 dollars, what will be the cost of 75 tons?

32. What is the cost of 809700 quires of paper, at \$2.40 a ream?

33. If 8 gross of buttons cost \$16.75, what will be the profit if sold at the rate of 5 cents a button?

34. If 12 barrels of flour cost 96 dollars, how many tons of coal @ 6 dollars a ton will it take to pay for 175 barrels of flour?

35. What is the amount of the following articles?

17 pr. Boys' Boots,	@	\$1.75
21 yd. Cotton,	@	.14
25 yd. Tape,	@	.01
2 Hats,	@	1.25

36. The sum of two numbers is 5469; the less is 672. What is the greater?

37. What will be the profit on 20 quires of paper that cost \$4.00, if sold at 2 cents a sheet?

38. A farmer wishes to put 355 bushels of apples into barrels that will contain 10 pecks each. How many barrels will it require?

39. ( $\frac{1}{12}$  of 15817340)—( $\frac{3}{12}$  of 14213311) = ?

40. A man bought 576 knives at \$1.25 per dozen, and

24 doz. spoons at \$1.10 per doz. He gave in payment a hundred-dollar bill. What change should he receive?

41. It is 3000 miles across the Atlantic. If a steamer can make the trip in 8 days, how many rods will she go in  $\frac{1}{2}$  of a day?

42. If 12 caps cost \$24, how many caps will it require to pay for 40 crates of dishes, worth 40 dollars a crate?

43. What is the quotient of 840096 divided by 25? What is the remainder?

44. Sold 40 tons of hay, at the rate of 50 cents a cwt.; how many dollars did I receive for it?

45. ( $\frac{1}{4}$  of 9086328) multiplied by 809 = ?

46. A drover bought 22 horses for 3630 dollars. For how much must he sell them apiece to gain 1760 dollars?

47. A merchant's income is 6200 dollars; he pays 1200 dollars for house rent, and three times as much for family expenses; how much does he save yearly?

48. A grocer bought 78 quarts of berries at 20 cents a quart, 150 quarts at 18 cents a quart. He sold all at the rate of 22 cents a quart; how much did he gain?

49. Two steamers start at the same time, and sail toward each other; one from Liverpool at the rate of 13 miles an hour, and the other from New York at the rate of 12 miles an hour. Allowing the distance to be 3000 miles, in how many hours will they meet?

50. Having money to invest, I buy a farm worth 3460 dollars; stock worth 897 dollars, and have 490 dollars left; how much had I at first?

51. I bought 14 loads of hay paying \$8.75 per load; and afterwards sold the same, losing on each of seven loads \$2.25; and the remaining seven at cost. How much did I receive for the hay?

52. James, after paying his board and other expenses, saved 360 dollars a year. How much less than 2000 dollars did he save in 5 years?

53. A certain factory turns out 21810336 sheets of paper in one day. How many quires do they make?

54. I paid \$4376 for a house, and 2484 dollars for the lot. I sold them for \$7648.50. How much did I gain?

55. Reuben was sent to the grocery to purchase the following articles:

2 lbs. of Tea,	at 96c.
5 lbs. of Sugar,	at 12c.
3 lbs. of Oatmeal,	at 05c.
2 sacks of Flour,	at \$1.25.

What was the amount of the bill?

56. George Washington died in the year 1799, and President Garfield in the year 1881. How many years from the death of Washington to the death of President Garfield?

57. What is the cost of 908700 quires of paper @ \$8.75 a ream?

58. A merchant bought 4080 barrels of flour at 8 dollars a barrel, and sold  $\frac{1}{2}$  of it at cost, and the remainder at \$1.50 per barrel less than cost; how much did he lose by the transaction?

59. What is the cost of 9087 quires of paper, at 10 dollars a ream?

60. If a man's income is 6740 dollars a year, and his expenses are 2004 dollars, how much can he save in 8 years?

61. ( $\frac{1}{2}$  of 20239400)—873462—87642—3486 = ?

62. If one pound of hay costs 2 cents, how many cents will a ton cost?

63. What is the quotient of 8970654321 divided by 18, and what remainder?

64. If Mark earns 36 dollars a month, and his expenses are 20 dollars a month, how much less than 500 dollars does he save in a year?

65. Two persons start from the same point, and travel in the same direction; one traveling at the rate of 11 miles an



hour, and the other at the rate of 14 miles an hour. How far apart will they be in 36 hours?

66. A farmer exchanged 380 bushels of potatoes worth 60 cents a bushel, for sugar at 12 cents a pound. How many pounds did he get?

67. How many pounds of butter @ 25 cents a pound, can be bought for 20 gallons of milk @ 5 cents a quart?

68. How many steps of 2 feet in length, would a man take in walking 320 yards?

69. A man bought a farm of 360 acres, to be paid for in 3 equal yearly installments. For  $\frac{1}{3}$  he paid 60 dollars an acre; for the remainder 75 dollars an acre. What was the amount to be paid each year?

70. From 1000000— $(860 \times 97)$  take  $(\frac{3}{4}$  of 904267)—480.

71. What amount must be added to  $\frac{3}{4}$  of 65944 to make the sum 98000?

72. If 6 quarts of cider can be made from one bushel of apples, how many quarts can be made from 480 pecks of apples?

73. How many dozen eggs at 2 cents apiece, will pay for 96 pounds of sugar at 11 cents a pound?

74. How many miles in 1920 rods?

75. A man exchanged a house and lot worth 6500 dollars, for 25 cows @ 47 dollars each, 36 horses at 100 dollars each, and the remainder in money. How much money did he receive?

76. An estate of 175000 dollars was divided between 2 brothers, the elder receiving  $\frac{4}{5}$  of it, and the younger the remainder. What was each one's portion?

77. Allowing 12 working hours to a day, how many days would it require to do 13728 hours work?

78. A dealer sold 45 crates of berries, each containing 24 quarts at 21 cents a quart. How much did he receive for them?

19. Find the cost of the following articles:

14 lbs. Sugar.	@ \$ .35
3 lbs. Coffee.	@ .45
11 lbs. Sugar.	@ .11
3 doz Eggs.	@ .32

20. What is the cost of 300 avo of lard at 12 cents per lb.?

21. A merchant paid \$500 dollars for 10 pieces of velvet, each piece containing 25 yards. What was the price per yard?

22. A vessel lost at sea was valued at \$5000 dollars, and the cargo at \$1000 dollars. It was insured for  $\frac{3}{4}$  its value. What was the value of the insurance?

23. A farmer has 2 flocks of sheep: in one there are 640, and in the other there are twice as many less 480. How many sheep are there in the second lot?

24. A man bought a horse and carriage: for the horse he paid \$75 dollars, and for the carriage 3 times as much — \$225. What was the cost of the carriage?

25. How many rods is it across the Atlantic, the distance being 3000 miles?

26. A and B own a ship valued at \$5000 dollars. A owns  $\frac{1}{4}$  of it — 1250 dollars and B owns the remainder. What is B's share?

27. A man being asked the value of his estate, replied, "If you will give me 1840 dollars, I shall have 30000 dollars." What was the value of the property?

28. A speculator gained 1180 dollars the first year, and lost 1000 dollars the second. What was his actual gain in the two years?

29. How many bushels of corn could be put into 3 bins, the capacity of each being 540 yards?

30. A man wishes to put 540 gal. of wine into bottles, each to contain 3 quarts. How many bottles will be required?

91. A man owned 6400 acres of land which he divided into 16 lots of equal size. How many acres did each contain?

92. What will 40 gross of tapers cost, at 16 cents per dozen?

93. How many rods did a man travel in going 64 miles and returning?

94. Find the amount of the following articles:

9 yards Print,	@ \$.07
12 yards Silk,	@ 1.25
8 yards Ribbon,	@ .65
1 dozen Thread,	@ .50

95. President Arthur's salary is 50000 dollars a year; how much does he receive a month?

96. The distance around the earth is 25000 miles. If a ship sail at the rate of 8 miles an hour, how many days will it require to sail around the globe?

97. The greater of two numbers is 89476, and their difference is 25984. What is the smaller number?

98. For 6 consecutive years, a man saved as follows: 50400 cents, 63795 cents, 84620 cents, 97543 cents, 32568 cents, and 46820 cents. What was the entire amount in dollars and cents, and what did it average per year?

99. A laborer receives \$2.50 per day; how much will he receive in a year, allowing 52 Sabbaths and 4 holidays?

100. In a dairy they have 960 pounds of butter. They fill 60 jars, that will hold 12 pounds each, and put the remainder in jars that will contain 24 pounds each. How many jars of the latter size will it require?

101. I purchase 2 houses, paying for one \$7580, and for the other \$8590, less \$1250. What did I pay for both?

102. In 1875 there were 1784600 bales of cotton raised in the United States. If the weight of each bale was 500 pounds, what was the entire weight in cwt.?

103. A grocer bought 29 boxes of soap, each containing 25 smaller boxes, and each of the smaller boxes containing 6 cakes. How many cakes did he buy?

104. A merchant sold 125 yards of cloth at 60 cents per yard, and received in part payment 8 barrels of flour, worth \$5.50 per barrel. What amount remained to be paid?

105. If a druggist sell 480 doz. bottles of mineral water in the month of June, and 48 gross in the month of July, how many more gross does he sell in July than in June?

106. If 6 men can excavate 24 square yards of a cellar in one day, how long would it take one man to excavate 2688 square yards?

107. A man having 640 bushels of oats, sold 2004 pecks. How many pecks had he remaining?

108. A piece of work required the labor of 24 men 62 days; another piece of work required the labor of 18 men 90 days. What is the difference in days' work?

109. If in building a walk 648 ft. long 2 boards were placed side by side, each measuring 9 ft., how many boards would be required?

110. A man bought 640 cords of wood at 5 dollars a cord, and sold it at a gain of 2 dollars a cord. What did he receive for it?

111. A grocer bought 48 boxes of raisins, each containing 35 pounds, at 13 cents a pound. How much did he pay for them?

112. A butcher bought 40 each of sheep and calves; for the first he paid \$4.50 apiece, for the latter 7 dollars apiece. How much did he pay for all?

113. A peach-orchard yielded for 3 years as follows: 1786 bushels, 1024 bushels, and 2362 bushels. What was the average yield?

114. A man being asked how many sheep he had, replied, "if you will add 74 to my number, I shall have 575." How many sheep had he?

115. From a hogshead containing 63 gallons, 52 quarts leaked out, and  $\frac{1}{2}$  the remainder was sold. What remained?

116. How many beeves, at 24 dollars each, will it require to pay for 15 horses, at 120 dollars each?

117. If a man can travel 235 miles in a day, how many miles can he travel in a year?

118. A man owning some houses valued at 175480 dollars, keeps them insured for 98590 dollars. What would be his loss if they were consumed by fire?

119. The average beat of the pulse of an adult is 74 times in a minute. How many times does it beat in 24 hours?

120. A man bought 4 pieces of cloth, each piece containing 30 yards, at 5 dollars per yard. How many suits must be made from it at 15 dollars a suit, to pay for the cloth?

121. A man received 1095 dollars for 365 days' work, and his expenses are 2 dollars a day for the entire time. How many dollars does he save?

122. I bought 15 car loads of corn, each car containing 1876 bushels, at 90 cents a bushel. How many dollars did the corn cost?

123. A, B, C, and D put money in the same bank; A put in 4972 dollars, B 13496 dollars, C 42830 dollars, and D as much as A and B. How many dollars did they all put in the bank?

124. In the battle of Waterloo, the French lost 40080 men, the Prussians 38000, and the English 12000. How many men did the three nations lose?

125. The front wheel of a wagon turns 660 times in traveling a mile, and the back wheel 490 times. How many more times does the front wheel revolve than the back wheel in traveling a distance of 9 miles?

126. A man bought two horses and a carriage for 896 dollars; he then sold the horses for 450 dollars, and the car-

riage for 117 dollars. How much did he lose by the transaction?

127. A has 429 sheep; B has 3 times as many lacking 127. How many sheep has B?

128. Mr. Collins has 480 sheep; his neighbor has 4 times as many + 28. How many sheep has the neighbor?

129. A man owing \$720, pays 4 dollars a day, Sundays excepted. In how many weeks will he liquidate the debt?

130. In erecting a house, I paid 750 dollars for labor, and 3 times as much for material. What did the house cost me?

131. If 24 bushels of apples cost \$96.96, what will one peck cost?

132. Find the amount of the following articles:

16 kegs Nails, @ \$4.50

10 lbs. Putty, @ .10

5 boxes Glass, @ 5.05

133. If a family consume a barrel of flour in a month, how many barrels will 8 families consume in 10 months?

134. Divide the product of 874 multiplied by 84, by the product of 12 multiplied by 2.

135. If 18 men can excavate a channel for a canal in 1764 days, how long will it take 12 men to do the same work?

136. What will be the cost of 24 firkins of butter, each containing 56 pounds, at 38 cts. per pound?

137. What is the difference in days between the number of days in the first six months and the last six months of the year?

138. If John takes 5280 steps, and James 5000 steps, in walking a mile, how many more steps does John take than James, in walking a distance of 9 miles?

139. A coal dealer bought 2500 tons of coal at 5 dollars a ton, 3600 tons at \$5.50 per ton, and sold all at an advance of 2 dollars a ton. What did he receive for it?

140. Bought 3600 yards of ribbon at 30 cents per yard, and sold it at 10 cents a foot. How much was my gain ?

141. A farmer sold 125 bushels of corn at \$.62 per bu.; he received in payment 10 yards of cassimere worth \$1.50 per yard, and the rest in cash. How much cash did he receive ?

142. A tree was broken by the wind 14 feet from the ground; the part broken off was 4 times the length of the part standing. What was the length of the tree ?

143. How many pecks of wheat, worth one dollar a bushel, will it take to pay for 30 yards of ticking at 40 cts. per yard ?

144. If I can do a piece of work in 5864 minutes, and James the same in  $\frac{4}{5}$  as many minutes, how long will it take James to do the work ?

145. If Henry can walk 8 rods in a minute, how many minutes will it take him to walk around a farm, the distance being 4 miles ?

146. How many boards will it take to fence a field, the distance being 2 miles, allowing 12 boards to a rod ?

147. If it take 40 days to do a piece of work when the days are 12 hours long, how many will it take when the days are 10 hours long ?

148. Bought 384 feet of satin at 10 cents a foot, and sold it at 3 cents an inch. How much did I gain ?

149. A boy bought an equal number of apples, peaches, and pears, paying respectively 1, 2, and 3 cents apiece. He invested 2400 cents. How many of each did he buy ?

150. The difference of two numbers is 4315; the greater number is 7642. What is the smaller number ?

151. The product of two numbers is 356000, and one of them is 890. What is the other number ?

## FOURTH YEAR.

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### LESSON I.

1.  $32606 \div 34$  equals how many? Prove the answer.
2.  $1\frac{1}{2}$  of  $10776 + (\frac{7}{11}$  of  $10945) - 6321$  equals how many?
3.  $59260 - 9876$  six times equals how many?
4. In 116 bushels how many quarts? In 496 bushels?
5. A man bought 89 bushels of corn at 70 cents a bushel, 73 bushels at 69 cents a bushel, and sold all at 80 cents a bushel. What was his gain?

### LESSON II.

1. Divide 3967824 by 49 and prove the result.
2.  $\frac{3}{4}$  of  $60348 + (\frac{5}{11}$  of  $44649) - 5483 =$  how many?
3.  $100 \times 60 \div 10 \times 625 \div 25 \times 5 \div 25$  equals how many?
4. In 874 pecks how many pints? In 984 pecks?
5. A dealer bought 96 pecks of beans at 20 cents a peck, 102 pecks at 25 cents a peck, and sold all at 40 cents a peck. What was his gain?

### LESSON III.

1. Divide 608320 by 64 and prove the result.
2.  $(948 \times 978) - (894 \times 987) + \frac{7}{12}$  of  $8796 =$  how many?
3.  $786349 - 246372 - 2345 - 246 - 3421 - 18 =$  how many?
4. In 884 bushels how many pints? In 981 bushels?
5. A grocer bought 89 quarts of beans at 15 cents per quart, and sold them at 9 cents a pint. What was his gain?



## LESSON IV.

1. Divide 681397 by 75 and prove the result.
2.  $\frac{3}{4}$  of 63847 +  $\frac{1}{4}$  of 91512 — 9835 — 601 equals how many?
3.  $6740 \times 84 \div 21 \div 4 \div 5$  equals how many?
4. In 4 hogsheads how many gallons? In 27 hogsheads?
5. A grocer bought 3 hogsheads of molasses at \$36.50 per hogshead, and sold it at 75 cents a gallon. What was his gain?

## LESSON V.

1.  $633648 \div 86$  equals how many? Prove the result.
2.  $\frac{3}{8}$  of 23784 + ( $\frac{1}{11}$  of 95381) — 39566 equals how many?
3.  $50000 - 8765$  five times equals how many?
4. In 42 hogsheads how many quarts? In 108 hogsheads?
5. A druggist bought a hogshead of wine for 254 dollars, and retailed it at \$1.25 per quart. Did he gain or lose, and how much?

## LESSON VI.

1. Divide 8559551 by 91 and prove the result.
2.  $\frac{3}{4}$  of 76503 — ( $\frac{3}{8}$  of 30784) + 4836 = how many?
3.  $960 \times 638 \div 8 \div 3 \div 5$  equals how many?
4. In 480 gallons how many pints? In 316 gallons?
5. I bought 46 gallons of vinegar at 30 cents a gallon, and sold it at the rate of 6 cents a pint. What was my gain?

## LESSON VII.

1. 777408 is the dividend and 96 is the divisor ; what is the quotient?
2. 843624—54738 five times equals how many?
3.  $\frac{7894}{12}$  equals what whole number and fraction ?  
 $\frac{97853}{29}$  equals what whole number and fraction ?
4. In 84 bales of paper, how many sheets ? In 96 bales?
5. I bought 77 feet of ribbon at 10 cents per foot, 63 feet at 7 cents per foot ; its average selling price was 6 cents an inch. What was my gain ?

## LESSON VIII.

1. Divide 804286 by 98 and prove the answer.
2. In 68 miles how many rods ? In 684 miles?
3.  $\frac{84634}{12}$  equals what whole number and fraction ?  
 $\frac{789631}{17}$  equals what whole number and fraction ?
4. In 987 feet how many inches ? In 644 feet?
5.  $\frac{1}{11}$  of 74556 + ( $\frac{1}{11}$  of 10989) + 46897 equals how many ?

## LESSON IX.

1. Divide 1104138 by 126 and prove the result.
2.  $625 \times 40 \div 25 \times 30 \div 25 \times 8 \div 10$  equals how many ?
3.  $\frac{1}{11}$  of 185812 + ( $\frac{1}{11}$  of 35316) — 154896 = how many ?
4. In 496 tons how many cwt. ? In 784 tons?
5. A merchant bought 80 tons of hay at \$5 per ton ; he pressed it into bales of 100 pounds each and sold at 50 cents a bale. What was his gain ?

## LESSON X.

1. The divisor is 102 and the dividend is 51846804; what is the quotient?

2.  $\frac{2}{16}$  of 9800— $\frac{1}{12}$  of 9768—4703 equals how many?

3.  $\frac{84736}{29}$  equals what whole number and fraction?

$\frac{94805}{63}$  equals what whole number and fraction?

4. In 486 quarts how many gills? In 488 quarts?

5. A man bought 63 quarts of cider, at the rate of 9 cents a quart. He sold it at the rate of 2 cents a gill. What was his gain?

## LESSON XI.

1. Divide 1098385 by 132. Give the quotient and remainder.

2.  $(406 \times 948) - (48392 \div 92) + 843674 - 742981 = ?$

3.  $\frac{796256}{167}$  equals what whole number?

$\frac{2310984}{486}$  equals what whole number and fraction?

4. In 46 tons how many pounds? In 124 tons?

5. A farmer sold 2 tons of hay at 12 dollars a ton, 3 tons at \$10.50 a ton, and received in payment 30 dollars' worth of groceries and the remainder in cash. How much cash did he receive?

## LESSON XII.

1. The dividend is 3932032 and the divisor is 556; what is the quotient? Prove the result.

2.  $\frac{3}{4}$  of 69687—( $\frac{5}{12}$  of 20664)—49783—1100=how many?

3.  $96 \times 49 \times 30 \div 32 \div 7 \div 10$  equals how many?

4. In 24 hundredweight how many pounds? In 480 hundredweight?

5. A merchant exported 16 hundredweight of cheese at 14 cents per pound, for which he paid \$9 a hundredweight. Did he gain or lose, and how much?

## LESSON XIII.

1. Divide 1554768 by 216 and prove the result.

2.  $\frac{11}{8}$  of  $84357 + (996 \times 42) - (5970 \div 93)$  equals how many?

3.  $\frac{84763}{13}$  equals what whole number and fraction?

$\frac{97635}{25}$  equals what whole number and fraction?

4. In 84 reams of paper how many sheets? In 976 reams?

5. A stationer bought 84 reams of paper at \$2.50 per ream, and sold it at 1 cent a sheet. What was his gain?

## LESSON XIV.

1. Divide 5497800 by 175 and prove the result.

2.  $\frac{11}{2}$  of  $97152 + (879 \times 765) - 21081$  equals how many?

3.  $840867 - 71978$  four times equals how many?

4. In 89 quires and 11 sheets how many sheets?

In 7 bales and 16 reams how many quires?

5. I bought 448 yards of cotton cloth at 12 cents per yard, and gave in payment 40 pounds of wool at 37 cents per pound, and the remainder in cash. How much cash did I pay?

## LESSON XV.

1. What is the quotient and also the remainder of 208822 divided by 566 ?

2.  $\frac{3931476}{556}$  equals what whole number?

$\frac{6743208}{804}$  equals what whole number and fraction?

3.  $8674089 - 640897$  three times equals how many?

4. In 84 centuries how many months? In 804 centuries?

5. A merchant bought 189 bushels of potatoes at 80 cents per bushel;  $\frac{1}{3}$  of them spoiled, and he sold the remainder at \$1.25 per bushel. Did he gain or lose by the transaction, and how much?

## LESSON XVI.

1. What is the quotient and also the remainder of 829476 divided by 731?

2.  $\frac{1}{18}$  of  $1513712 - (493 \times 65)$  equals how many?

3.  $420 \times 49 \times 46 \div 21 \div 7 \div 5$  equals how many?

4. In 27 hundredweight how many ounces? In 216 hundredweight?

5. What will be the gain in selling 4 hundredweight of sugar, that cost 40 dollars, at 1 cent an ounce?

## LESSON XVII.

1. Divide 789647 by 836 and prove the result.

2.  $(8013 \times 99) + (986 \times 73) - (46872 \div 93)$  equals how many?

3.  $\frac{748365}{248}$  equals what whole number and fraction ?  
 $\frac{689503}{714}$  equals what whole number and fraction ?
4. In 65 centuries how many years? In 84 centuries ?
5. In what year did a celebrated writer die, who has been dead 2 centuries ?

## LESSON XVIII.

1. If the subtrahend is 978064, and the remainder is 475098, what is the minuend ?
2.  $(307510 \div 805) + (489 \times 234) - 40870 - 691 =$  how many ?
3.  $89465 - 4589$  four times equals how many ?
4. How many days in 42 years? In 487 years?
5. A man worked 4 years in a foundry, receiving \$2.50 per day, Sundays excepted. How much was paid him during the time ?

## LESSON XIX.

1. What is the quotient and also the remainder of 750234 divided by 468 ?
2.  $\frac{1}{8}$  of  $194544 + (890 \times 876) - (31976 \div 56)$  equals how many ?
3.  $\frac{384208}{789}$  equals what whole number and fraction ?  
 $\frac{64032}{18}$  equals what whole number and fraction ?
4. In 84 years how many hours? In 72 years ?
5. How much must I pay for 7 hundredweight of lard, at 1 cent an ounce ?

## LESSON XX.

1. What is the quotient and also the remainder of 846935 divided by 545?
2.  $\frac{1}{12}$  of 908868—(180190÷37) equals how many?
3. 847639—87749 four times equals how many?
4. In 96 days how many seconds? In 184 days?
5. A grocer bought 80 gallons of milk at 18 cents per gallon, and dealt it out to customers at 5 cents per quart. What was his gain?

## LESSON XXI.

1. 3065894 divided by 528 equals how many?
2.  $\frac{1}{12}$  of 62148 + (8121855÷21) equals how many?
3. 
$$\begin{array}{r} 804765 \\ 129 \end{array}$$
 equals what whole number and fraction?
4. 
$$\begin{array}{r} 543870 \\ 361 \end{array}$$
 equals what whole number and fraction?
4. Reduce 64 bushels and 3 pecks to pints.
5. A grocer bought 196 pecks of beets at 15 cents a peck;  $\frac{1}{4}$  of them decayed, and he sold the remainder at 20 cents a peck. Did he gain or lose, and how much?

## LESSON XXII.

1. Divide 3690577 by 914 and prove the result.
2.  $\frac{1}{34}$  of 32606 + ( $\frac{1}{4}$  of 1116304)—65483—40=how many?
3.  $96 \times 76 \div 32 \div 6 \times 70 \div 14 \div 5$  equals how many?
4. In 460 weeks how many hours? In 375 weeks?
5. A man was 3024 hours in building a house. How many weeks was it, allowing 12 working hours to a day and 6 working days to a week?

## LESSON XXIII.

1. What is the quotient and also the remainder of 346022 divided by 298?

2. If the minuend is 493000, and the remainder 154638, what is the subtrahend?

3.  $\frac{5784362}{946}$  equals what whole number and fraction?

4.  $\frac{7843082}{987}$  equals what whole number and fraction?

5. In 462 days how many minutes? In 538 days?

6. A grocer bought 2 hogsheads of syrup at \$1.75 per gallon, 3 hogsheads at \$1.37 per gallon, and sold it all at \$2 per gallon. What was his gain?

## LESSON XXIV.

1. If the subtrahend is 498703, and the remainder 254836, what is the minuend?

2. 5120988 divided by 587 equals what whole number?  
437 multiplied by 87—26594 equals how many?

3.  $\frac{1}{3}$  of 1816628— $(612 \times 42 \div 7)$  equals how many?

4. In 480 hours how many seconds? In 576 hours?

5. A man bought 480 cwt. of hay at the rate of \$12 per ton, and 540 bushels of oats at the rate of 15 cents per quart. How much was paid for all?

## LESSON XXV.

1. What is the quotient and also the remainder of 281014 divided by 1107?

2.  $\frac{1}{4}$  of 105568— $\frac{1}{3}$  of 36184 equals how many?

3. 87846—8469 four times equals how many?



4. Reduce 83 pecks and 7 quarts to pints.
5. A farmer sold 3 horses at \$175 each, 120 sheep at \$3.50 each, and 5 cows at \$47 each. He took in payment, land at \$20 per acre. How many acres did he receive?

## LESSON XXVI.

1. The product is 546546 and the multiplier is 546; what is the multiplicand?
2.  $\frac{7}{18}$  of  $110352 + (894 \times 789)$  equals how many?
3. Reduce  $\frac{89768}{11}$  to a mixed number.  
Reduce  $\frac{64827}{11}$  to a mixed number?
4. What is the cost of 2 bushels of grain at 5 cents a pint?
5. I bought 12 tons of hay at \$8.50 per ton; I kept  $\frac{1}{3}$  of it, and sold the remainder at \$10 per ton. How much did the hay that I kept cost me?

## LESSON XXVII.

1. Divide 472541 by 4674 and prove the result.
2. Reduce  $\frac{1554768}{118}$  to a whole number?
3.  $500000 - 80009$  four times equals how many?
4. What is the cost of 3 bales of paper, at \$2.60 per ream?
5. A has \$10640, B has  $\frac{1}{2}$  as much as A, C has  $\frac{1}{3}$  as much as A, and D has as much as B and C. How many dollars has D?

## LESSON XXVIII.

1. The product is 40745430 and the multiplier is 5049; what is the multiplicand?
2.  $\frac{48976}{984}$  equals what whole number and fraction?

$\frac{15619}{216}$  equals what whole number and fraction ?

3. What is the product of 9483 by 5489 ?
4. In 2 hogsheads and 3 gallons how many quarts ?  
How many quarts in 9 gallons and 3 quarts ?
5. Two hundredweight of canned fruit would require how many boxes of a capacity of 40 pounds each ?

### LESSON XXIX.

1. The product is 12726420 and the multiplier is 6594 ; what is the multiplicand ?
2. 200000—9436 four times equals how many ?
3.  $\frac{1}{3}$  of 5017 + ( $\frac{1}{4}$  of 3682)—568 equals how many ?
4. How many pints in 4 gallons and 3 quarts ? In 7 gallons and 1 quart ?
5. If the wind is blowing at the rate of 40 miles an hour, how many rods will it pass over in 12 hours ?

### LESSON XXX.

1. Divide 2018040 by 6024 and prove the result.
2. Reduce to improper fractions  $384\frac{1}{3}$ ,  $4062\frac{1}{3}$ .
3.  $760 \times 384 \div 24 \div 10$  equals how many ?
4. How many gills in 7 quarts and 1 pint ? In 1 gallon, 2 quarts and 1 pint ?
5. A speculator made \$47.50 on Monday, twice as much on Tuesday, 3 times as much on Wednesday, and on Thursday lost 200 dollars. How much had he left of what he had gained ?

### LESSON XXXI.

1. If the product is 5497975 and the multiplier is 175, what is the multiplicand ?

2. Reduce to improper fractions  $487\frac{2}{3}$ ,  $593\frac{7}{10}$ .
3.  $\frac{2}{3}$  of  $109764 + \frac{1}{8}$  of  $42224 + \frac{1}{4}$  of  $3486 =$  how many?
4. Reduce 3 tons and 4 cwt. to pounds. Reduce 5 tons and 9 cwt. to pounds.
5. A man bought 4 tons of iron for 320 dollars. He sold 3500 pounds at 6 cents per pound, and the remainder at 4 cents a pound. What was his gain?

## LESSON XXXII.

1. If the product is 4929525 and the multiplier is 1675, what is the multiplicand?
2.  $408 \times 84 \div 16 \div 7 + 47632 - 5840$  equals how many?
3. Reduce to improper fractions  $473\frac{1}{2}$ ,  $594\frac{1}{4}$ .
4. In 9 cwt. and 75 lbs. how many ounces? In 12 cwt. and 27 lbs.?
5. In a certain orchard there are 12 plum-trees, 3 times as many peach-trees as plum-trees, and twice as many apple-trees as plum and peach-trees. How many trees are there in the orchard?

## LESSON XXXIII.

1. 16753094 divided by 654 equals how many?
2. How much greater is  $975 \times 463$  than  $748 \times 357$ ?
3. Reduce to mixed numbers  $4\frac{225}{331}$ ,  $5\frac{243}{110}$ .
4. In 4 centuries and 27 years how many days? How many minutes?
5. What is the cost of 9 yards and 2 feet of cloth, at 2 cents an inch?  
 What is the cost of 8 yards and 1 foot of ribbon, at 3 cents an inch?

} Add ans.

## LESSON XXXIV.

1. The product is 465024 and the multiplier is 896; what is the multiplicand?
2.  $\frac{1}{2}$  of  $84624 + (498 \times 78) - (2268 \div 28) =$  how many?
3.  $870 \times 125 \div 25 \times 90 \div 10$  equals how many?
4. If it cost \$3479680 to build one mile of railroad across a marsh, what is the cost per rod?
5. A has \$406.60, B has 18 times as much as A, and C has 6 times as much as A and B. How much have all?

## LESSON XXXV.

1. The remainder is 8976 and the subtrahend is 764032; what is the minuend?
2. Reduce  $5649\frac{2}{3}$  to an improper fraction.
3.  $\frac{7}{11}$  of  $34232 + (943 \times 679) - (242298 \div 27) =$  how many?
4. What is the cost of 87 bushels and 3 pecks, at 7 cents per quart?
5. A man bought 87 barrels of cider at \$4 per barrel, and paid for it in hay at \$12 per ton. How many tons of hay did he give for the cider?

## LESSON XXXVI.

1. The minuend is 897654892 and the remainder is 4086921; what is the subtrahend?
2. Reduce  $4\frac{3}{4}\frac{1}{10}\frac{1}{100}$  to a mixed number.  
Reduce  $5201\frac{1}{10}\frac{1}{100}$  to an improper fraction.
3. What is the cost of 5 tons of hay, at 25 cents per cwt.?
4. A farmer bought 28 calves for \$280; for how much per head must he sell them to gain \$112?
5. If 7 barrels of sugar are worth \$63, how many yards of velvet at \$12 per yard will 17 barrels of sugar buy?

## LESSON XXXVII.

1. The product is 6398890 and the multiplier is 659; what is the multiplicand?

2.  $\frac{1}{4}$  of  $11160 + (897 \times 567) - (58248 \div 72)$  = how many?

3.  $640800 - 90011$  six times equals how many?

4. How much must I pay for 97 yards of velvet, at the rate of \$.03 an inch?

5. A man left his wife  $\frac{1}{3}$  of his property, valued at \$45000, and the remainder to be equally divided among his six children. What was the share of each child?

## LESSON XXXVIII.

1. The dividend is 8097653 and the divisor is 9013; what is the quotient?

2.  $\frac{1}{3}$  of  $837057 + (598 \times 87) - (559944 \div 8)$  = how many?

3. Reduce  $326\frac{87}{9}$  to an improper fraction.

Reduce  $14\frac{50252}{7886}$  to a mixed number.

4. How much must I pay for 184 pounds of raisins, at the rate of one cent an ounce?

5. A druggist bought 153 gallons of wine for \$720.90;  $\frac{1}{3}$  of it leaked out, and he sold the remainder at \$.75 per gallon. Did he gain or lose, and how much?

## LESSON XXXIX.

1. Divide 897634 by 6019 and prove the result.

2.  $\frac{1}{18}$  of  $10772220 - (8197495 \div 83)$  equals how many?

3.  $105 \times 64 \div 15 \times 144 \div 16$  equals how many?

4. If a house valued at \$3136 is worth 16 horses, how many horses must be given for a house valued at \$6272?

5. If 12 pecks of oats cost 90 cents, what will 96 bushels cost?

## LESSON XL.

1. Divide 743086 by 1437 and prove the result.
2.  $(436 \times 508) + (548 \times 663) - (367 \times 199) =$  how many?
3. Reduce to a whole number  $\frac{488164}{888}$ ,  $\frac{47382}{888}$ .
4. In 24 weeks and 13 hours how many minutes? In 62 weeks and 23 hours?
5. A man bought 167 bushels of wheat at 70 cents a bushel, and sold it at 90 cents a bushel. What was his gain?

## LESSON XLI.

1. What is the quotient and also the remainder of 47835649 divided by 3140?
2.  $\frac{3}{4}$  of 86422 + ( $\frac{1}{4}$  of 736623) - 548936 = how many?
3.  $900037 - 143872$  four times equals how many?
4. In 37 days and 14 hours how many minutes? In 112 days and 16 hours?
5. A boy worked 15 days for 15 cents a day, 27 days for 25 cents a day, 39 days for 30 cents a day, and spent 10 dollars of his wages for clothes. How much had he left?

## LESSON XLII.

1. Divide  $987 \times 463$  by  $813 \times 6$ .
2. Reduce to improper fractions  $\frac{48313}{13}$ ,  $\frac{785413}{13}$ .
3.  $(675 \times 189) - (847 \times 115) - (6888 \div 8) =$  how many?
4. In 23 hours and 35 minutes how many seconds? In 27 hours and 48 minutes?
5. A farmer sold 375 bushels of potatoes at 75 cents a bushel. He bought a sewing machine for 75 dollars, and some clothes for 20 dollars. How much money had he left?

## LESSON XLIII.

1. If the product is 1970829 and the multiplier 2009, what is the multiplicand?
2.  $756 \div 12 \times 96 \div 24 \times 96 \div 8$  equals how many?
3. What is the cost of 1 hogshhead and 3 gallons of syrup, at 10 cents per quart?
4. How many square inches in 14 square feet? In 84 square feet?
5. A man bought real estate valued at \$675000. He gave in payment 4 houses worth \$17500 each, a store worth \$346000, and the remainder in cash. What was the cash payment?

## LESSON XLIV.

1. How many times is  $112 \times 32$  contained in  $6049 \times 3584$ ?
2.  $473800 - 59483$  four times equals how many?
3.  $\frac{1}{18}$  of  $919144 + (\frac{1}{18} \text{ of } 903288) - 49385 =$  how many?
4. In 84 square yards, how many square feet? In 125 square yards?
5. A man has in a bank \$36478; how many times can he draw out 4679 dollars, and how much will remain?

## LESSON XLV.

1. If the product is 12428613 and the multiplier is 1437, what is the multiplicand?
2.  $742 \times 144 \div 72 \div 4 \times 225 \div 5 \div 5 \times 84 \div 12 =$  how many?
3. What is the cost of 32 gallons and 3 quarts, at 7 cents a pint?
4. In 42 acres, how many square rods? In 76 acres and 9 square rods, how many rods?
5. A has \$76480, B has twice as much as A, and C has  $\frac{1}{2}$  as much as A and B. How much has C?

## LESSON XLVI.

1. The dividend is 987654 and the divisor is 3406 ; what is the quotient ?

2.  $\frac{1}{13}$  of  $1283945 + (678 \times 87) - (4392507 \div 7 \div 7) =$  how many ?

3.  $19000000 - 4000001$  four times equals how many ?

4. Reduce 3 square miles to rods. Reduce 9 square miles to rods.

5. 47520 dollars is 11 times the cost of 96 acres of land. What is the cost per acre ?

## LESSON XLVII.

1. The product is 8973912 and the multiplier is 4008 ; what is the multiplicand ?

2.  $\frac{1}{14}$  of  $11374902 - (822661 \div 49)$  equals how many ?

3.  $892 \times 156 \div 16 \times 39 \div 13 \times 840$  equals how many ?

4. In 5 acres how many rods ? In 17 acres how many rods ?

5.  $\frac{1}{8}$  of \$84150 is what I paid for a house. The lot cost \$1236 less than the house. What is the cost of the property ?

## LESSON XLVIII.

1. The minuend is 89765423 and the remainder is 1234657 ; what is the subtrahend ?

2.  $\frac{1}{16}$  of  $1314810 + (864 \times 906) - 350481$  equals how many ?

3.  $10000000 - 1000004$  three times equals how many ?

4. Reduce 198 square yards to square feet. 468 square yards to square feet.

5. The difference between \$35692 and \$55968 is what I paid for a house and lot. They were sold for \$14025. How many dollars did I lose ?



## LESSON XLIX.

1. Divide 6948034 by 4673 and prove the result?
2.  $\frac{1}{18}$  of 774352 = ?  
 $916 \times 569 - 439677$  equals how many?
3.  $890 \times 256 \div 16 \div 16 \times 80 \div 10 \times 96 \div 12$  equals how many?
4. Reduce  $567\frac{81}{108}$  to an improper fraction.  
 Reduce  $27\frac{83}{108}$  to a mixed number.
5. How much must I pay for 2 square miles of land, at \$50 an acre?

## LESSON L.

1. The minuend is 849620467 and the subtrahend is 8096473; what is the remainder?
2.  $\frac{1}{17}$  of  $1418803 + (765 \times 87) - 48550$  equals how many?
3. Reduce  $640\frac{96}{107}$  to an improper fraction.  
 Reduce  $23\frac{65}{108}$  to a mixed number.
4. What must I pay for 6 acres of land, at the rate of \$.75 a square rod?
5. A herds 38040 sheep, B 25560, and C 10920 less than A and B. How many more or less does C herd than B?

## LESSON LI.

1. Divide 7643201 by 4096 and prove the result.
2.  $\frac{1}{12}$  of  $9717168 - (24652502 \div 62)$  equals how many?
3.  $80976432 - 9897658$  three times equals how many?
4. What must I pay for 8096787 square yards of land, at the rate of \$.10 a square foot?
5. A man earns \$190 a month, and spends \$75 in the same time. How long will it take him to pay for 90 acres of land at \$23 per acre?

## LESSON LII.

1. How many times as great is  $4306 \times 1230$  as  $41 \times 10 \times 3$ ?
2. Reduce to improper fractions  $486\frac{11}{12}$ ,  $613\frac{11}{12}$ .
3.  $(467 \times 594) + \frac{3}{4}$  of  $4382693 + \frac{1}{4}$  of  $5437683 =$  how many?
4. What is the cost of 18 square feet, at the rate of 9 cents a square inch?
5. Which costs more, 10 bushels of potatoes at 15 cents per peck, or 13 quarts and 1 pint of wine at 10 cents a gill?

## LESSON LIII.

1. Divide 43607483 by 1943 and prove the result.
2.  $430014 - 101001$  four times equals how many?
3.  $\frac{7}{12}$  of  $898032 + \frac{3}{4}$  of  $736623 + (948 \times 69) =$  how many?
4. What is the cost of 121 square yards, at 19 cents per square foot?
5. A man bought 25 feet of land, at \$75.25 per foot. He erected a house which cost \$13285. He afterwards sold the house and lot for \$25000. Did he gain or lose, and how much?

## LESSON LIV.

1. Divide 48076325 by 4821 and prove the result.
2. Reduce to mixed numbers  $48\frac{375}{118}$ ,  $26\frac{245}{118}$ .
3.  $\frac{1}{18}$  of  $1052688 - (336446 \div 41)$  equals how many?
4. What is the cost of 42 acres of land, at \$27 per square rod?
5. If a boy earn 10 cents an hour, what will he earn in 15 weeks, working 12 hours a day, and 6 days in a week?

## LESSON LV.

1. The dividend is 3039908 and the divisor is 3046; what is the quotient?
2.  $\frac{1}{8}$  of 10144512 +  $\frac{1}{4}$  of 540862 equals how many?
3.  $985 \times 432 \div 24 \div 9 \times 75 \div 25 \div 5 + (16 \times 76) =$  how many?
4. What is the cost of 2 square miles of land, at \$45.50 an acre?
5. A man paid \$48 for 320 gallons of milk, and sold it at 3 cents per pint. What was his gain?

## LESSON LVI.

1. If the product is 47258814 and the multiplier is 4674, what is the multiplicand?
2.  $(122700 \div 25) + (201595 \div 23) + (70565 \div 11) =$  how many?
3.  $140000 - 12346$  four times equals how many?
4. What will 122 square yards of cloth cost, at 10 cents a square foot?
5. A man bought 2 bushels and 3 pecks of grass seed at 60 cents a peck, 4 bushels and 1 peck at 70 cents a peck, and sold all at 75 cents a peck. How much did he gain?

## LESSON LVII.

1. 57140860 is the dividend and 1990 is the divisor; what is the quotient?
2.  $\frac{3}{8}$  of 60928 -  $\frac{1}{8}$  of 101448 +  $(7306 \div 13) =$  how many?
3.  $\frac{1}{4}$  of  $580 \times 987 \div 7 \div 3 \times 84 \div 21 \div 4 + 66 + 15$  equals how many?

4. What is the cost of 275 square feet of leather, at the rate of 2 cents a square inch?

5. A man bought \$10 worth of flour, 350 pounds of sugar at 1 cent an ounce, and gave in payment beans at 15 cents a quart. How many bushels were required to pay the bill?

## LESSON LVIII.

1.  $\frac{1}{18}$  of  $107244 + (876 \times 876) - (24864 \div 28) =$  how many?

2. Reduce  $964\frac{11}{18}$  to an improper fraction.

Reduce  $24\frac{11}{18}$  to a mixed number.

3. What is the cost of 4 square miles of land, at \$41.75 per acre?

4. A had 42000 dollars; he gave  $\frac{2}{3}$  of it to his wife,  $\frac{1}{3}$  of the remainder to the poor, and what then remained he divided equally among his 5 children. What was the share of each child?

## LESSON LIX.

1. Divide 80976543 by 9034 and prove the result.

2.  $192 \times 90 \div 16 \times 169 \div 13$  equals how many?

3. What is the cost of 5 acres of land, at \$1.75 a square rod?

4. What is the quotient and also the remainder of 8468972 divided by 4637?

5. 5 horses cost \$967.20, which was 12 times the cost of a cow; the cost of the cow was 20 times the cost of each sheep. What was the cost of 175 sheep?

## LESSON LX.

1. What is the quotient and also the remainder of 94678342 divided by 4098?
2. Reduce  $765\frac{81}{8}$  to an improper fraction.  
Reduce  $\frac{264782}{138}$  to a mixed number.
3.  $\frac{11}{2}$  of  $25272 \times (9216 \div 96) - 498887$  equals how many?
4. What is the cost of 9 square feet, at the rate of 14 cents a square inch?
5. A man bought 760 yards of cloth at 75 cents per yard, and gave in payment 9 cows at \$35 each, 1 horse at \$164, and the rest in money. How much was the cash payment?

## LESSON LXI.

1. Divide 10452824 by 5134 and prove the result.
2.  $\frac{2}{3}$  of 493648 —  $\frac{1}{11}$  of 3423101 +  $(495 \times 876) =$  how many?
3. Reduce to improper fractions  $368\frac{1}{2}$ ,  $578\frac{1}{3}$ .
4. How many cubic feet in 4 cords of wood? In 16 cords?
5. What will it cost to paint a floor containing 280 square feet, at 7 cents per square foot?

## LESSON LXII.

1. Divide 3129460 by 1994 and prove the result.
2.  $\frac{3}{11}$  of 329936 —  $\frac{1}{11}$  of 206703 +  $(47808 \div 12) =$  ?
3.  $731 \times 250 \div 25 \div 5 \times 132 \div 12 \times 8 \div 11 =$  how many?
4. In 48 cubic feet how many cubic inches? In 92 cubic feet?
5. A man walked 4 miles and 310 rods, while his son walked 3 miles and 300 rods, and his daughter walked  $\frac{1}{2}$  as far as both. How many rods did the daughter walk?

## LESSON LXIII.

1. If the product is 49767608 and the multiplier is 4808, what is the multiplicand?
2.  $(475 \times 896) + (4875 \times 98) - 648356 =$  how many?
3.  $90040010 - 10086$  four times equals how many?
4. In 48 cubic yards how many cubic feet? In 124 cubic yards?
5. A merchant bought 4 pieces of cloth, each containing 36 yards, at 17 cents a yard, and sold it at an advance of 2 cents on each yard. How much did he gain?

## LESSON LXIV.

1. The product is 3688104 and the multiplier is 1624 what is the multiplicand?
2.  $\frac{1}{15}$  of  $2664300 - (3654305 \div 37)$  equals how many?
3.  $987 \times 144 \div 12 \times 96 \div 12 \div 16$  equals how many?
4. In 96 cords how many cubic feet? In 74 cords?
5. A man paid \$9285 for a farm, 5 times as much for a city residence, and  $\frac{1}{4}$  as much for horses and a carriage. What did he pay for all?

## LESSON LXV.

1. Divide 8469732 by 4186 and prove the result.
2. Reduce  $869\frac{111}{118}$  to an improper fraction.  
Reduce  $28\frac{113}{118}$  to a mixed number.
3.  $\frac{1}{15}$  of  $1166945 + (719 \times 678) - 365437 =$  how many?
4. In 89 cubic feet how many cubic inches? In 187 cubic feet?

5. A merchant bought 890 bushels of potatoes, at 80 cents per bushel;  $\frac{1}{4}$  of them decayed, and he sold the remainder at \$1.50 per bushel. Did he gain or lose, and how much?

## LESSON LXVI.

1. What is the quotient and also the remainder of 8976543 divided by 6083.

2.  $\frac{2}{11}$  of 10864678 — ( $5116605 \div 57$ ) equals how many?

3.  $987 \times 225 \div 15 \times 625 \div 25 \times 90$  equals how many?

4. What is the cost of 93 cubic yards, at the rate of 10 cents a cubic foot?

5. I bought 288 barrels of flour for \$2304, and sold  $\frac{1}{4}$  of it at cost, and the remainder at \$10 per barrel. How much did I receive for it?

## LESSON LXVII.

1. What is the quotient of  $4936 \times 899$  divided by  $7 \times 144$ ?

2. From  $\frac{1}{9}$  of 332272 take  $\frac{5}{4}$  of 57480.

3. Reduce to mixed numbers  $\frac{487652}{15882}$ ,  $\frac{452335}{24771}$ .

4. What is the cost of 388 cubic feet, at the rate of 3 cents a cubic inch?

5. If a boy spends 5 hours and 57 minutes each day in study, Sundays excepted, how many minutes does he spend in 6 weeks?

## LESSON LXVIII.

1. Divide the continued product of 96, 84, 25, 16 and 7 by  $12 \times 7 \times 5 \times 8$ .

2.  $\frac{1}{3}$  of 714194 +  $\frac{1}{4}$  of 331374 — 48376 = how many?

3. Reduce to improper fractions  $9874\frac{1}{2}$ ,  $8463\frac{5}{8}$ .

4. What is the cost of 27 cubic yards, at 10 cents a cubic foot?

What is the cost of 48 cubic yards, at 10 cents a cubic foot?

5. A traveled 315 miles and returned, B twice as many and returned, and C one-half as many as A and B. How many miles did they all travel?

### LESSON LXIX.

1. Divide 498367 by 2009 and prove the answer.

2.  $\frac{7}{12}$  of  $137316 + (456 \times 874) + (8579 - 101 \text{ eight times}) = ?$

3.  $2900035 - 400395$  four times equals how many?

4. What is the cost of 480 cords of wood, at the rate of 6 cents a cubic foot?

5. A boy gathered 16 bushels of chestnuts and 27 pecks of walnuts. He kept  $\frac{1}{2}$ , and sold the remainder at 12 cents per quart. How much did he receive for them?

### LESSON LXX.

1.  $8987460 \div 4389$  equals how many?

2.  $\frac{1}{2}$  of  $21714 \times (7056 \div 84) + \frac{1}{4}$  of  $3451126 = ?$

3.  $8460000 - 971001$  four times equals how many?

4. What is the cost of 128 gills of wine, at \$2 per gallon?

What is the cost of 6 gallons of vinegar, at \$.02 per pint?

Add ans.

5. Some parties bought 843 acres of land for \$18335. They sold 321 acres at \$40.25 per acre, and 522 acres at \$20.40 an acre. Did they gain or lose, and how much?



## LESSON LXXI.

1.  $8460987 \div 987$  equals how many?
2.  $\frac{7}{11}$  of  $434588 + (878 \times 79) - \frac{3}{8}$  of  $9872 =$  how many?
3. Reduce  $469\frac{801}{8804}$  to an improper fraction.  
Reduce  $22\frac{19443}{117}$  to a mixed number.
4. What is the cost of 128 pints of fruit, at \$1.50 per bushel?  
What is the cost of 96 quarts of syrup, at \$.75 per gallon?
5. A man bought 482 pigs at \$7 apiece, and sold  $\frac{1}{4}$  of them at \$7.50 each and the remainder for \$4338. What was his gain?

} Add ans.

## LESSON LXXII.

1. 9240876 is the dividend and 9806 is the divisor; what is the quotient, and what is the remainder?
2.  $400 \times 72 \div 20 \times 625 \div 25 \times 96 \div 12$  equals how many?
3.  $\frac{7}{18}$  of  $1174116 + (198 \times 70) - (4696464 \div 8 \div 6) =$  how many?
4. What is the cost of 4696464 inches of material, at the rate of 5 cents per foot?  
What is the cost of 316032 gills of oil, at 20 cents per gallon?
5. I bought 75 acres of land at 80 cents a square rod, and sold it at \$175 an acre. How much did I gain?

} Add ans.

## LESSON LXXIII.

1. Divide the product of 39516 and 1966 by 7864.
2.  $\frac{1}{14}$  of 24682 +  $\frac{4}{18}$  of 704295 + 687 + 945 equals how many?

3. Reduce  $4\frac{158362}{761}$  to a mixed number.  
Reduce  $78\frac{11}{4}$  to an improper fraction.
4. What will be the cost of 64 gallons and 4 quarts, at 10 cents a pint?
5. A man had 65840 dollars. He bought a farm of 240 acres at 75 dollars an acre, and stock worth twice as much as the farm. How much money had he left?

## LESSON LXXIV.

1. Divide the product of 17, 81, 56, 640 and 9 by  $9 \times 8 \times 10 \times 7$ .
2.  $\frac{1}{4}$  of 8463924 +  $\frac{1}{4}$  of 5836428 + 364 = how many?
3.  $7489365 - 43782$  four times equals how many?
4. How many cubic inches in 5 cubic yards and 16 cubic feet? In 9 cubic yards and 14 cubic feet?
5. What will it cost to fence a field 2 rods square, at \$3.75 per rod?

## LESSON LXXV.

1. Divide 94736081 by 7632 and prove the result.
2.  $\frac{1}{4}$  of 8365041 +  $\frac{7}{8}$  of 196880 +  $(45 \times 7 \times 9 \times 10 \div 63) = ?$
3. Reduce to improper fractions  $749\frac{1}{4}$ ,  $63\frac{1}{16}$ .
4. What is the cost of 2 hogsheads and 13 quarts, at 9 cents a pint? } Add ans.
- What is the cost of 54 gallons and 1 pint, at 1 cent a gill?
5. If a man earn 2 cents a minute, and works 5 hours a day, how much will he earn in the summer months, deducting 13 Sabbaths?

## LESSON LXXVI.

1. Divide 8972640 by 1097.
2.  $\frac{1}{12}$  of \$8756.24 +  $\frac{1}{5}$  of \$484.56 +  $\frac{1}{10}$  of \$4506.30 = ?
3. From 129892 take 32473 four times.
4. What is the cost of 288 gills, at 12 cents per gallon ?
- What is the cost of 320 pints, at 28 cents per bushel ?
5. A man earns \$2600 a year. He spends each month \$30 for board, \$12 for books, and \$14 for clothes. What can he save in 5 years ?

} Add ans.

## LESSON LXXVII.

1.  $(\$9340864 \div 6592) + (\$897 \times 96)$  equals what ?
2. Reduce  $493\frac{17}{84}$  to an improper fraction.  
Reduce  $28\frac{1764}{327}$  to a mixed number.
3. What is the cost of 3 acres, at \$1.60 per rod ?
4. What is the cost of 4 cwt. 14 lbs., at 10 cts. an oz. ?
- What is the cost of 6112 pts., at 20 cts. a gal. ?
5. John has \$9844; his sister has  $\frac{1}{2}$  as much and his brother 5 times as much as his sister. If they buy a store for \$12389, how much will they have left ?

} Add answers.

## LESSON LXXVIII.

1.  $\frac{3}{4}$  of \$69134.38 +  $(\$846 \times 879)$  equals what ?
2. 10000000 - 980012 four times equals how many ?
3.  $990 \times 36 \div 18 \times 72 \div 12 \times 96 \times 12 \times 84$  equals how many ?

4. What is the cost of 8 bushels and 2 quarts, at \$.05 per pint? }  
 What is the cost of 36864 ounces, at \$.10 per pound? } Add ans.  
 5. At the rate of 12 miles in 3 hours, how many rods will a boat sail in 36 hours?

## LESSON LXXIX.

1. 17913226 divided by 3658 equals how many?  
 2.  $\frac{3}{4}$  of  $48375 + (468 \times 908) \times \frac{1}{2}$  of 200 = how many?  
 3. Reduce  $83\frac{1}{2}$  to an improper fraction.  
 Reduce  $54\frac{23788}{4321}$  to a mixed number.  
 4. What is the cost of 4 bushels and 3 pecks, at 4 cents a pint? }  
 What is the cost of 2880 gills, at 50 cents a gallon? } Add ans.  
 5. A grocer bought 24 bushels of peas, at \$1.75 per bushel.  $\frac{1}{8}$  of them were not salable, and the remainder he sold at 2 dollars per bushel. Did he gain or lose, and how much?

## LESSON LXXX.

1. If the divisor is 3708 and the quotient 49831, what is the dividend?  
 2.  $\frac{1}{15}$  of 89004 +  $\frac{1}{5}$  of 117705 equals how many?  
 3.  $448 \times 96 \div 32 \div 4 \times 84 \times 7 \div 28 \div 7 + 48$  equals how many?  
 4. What is the cost of excavating 320 cubic yards of earth, at 50 cents a cubic foot?  
 What is the cost of 24 square yards of carpet, at the rate of 2 cents a square inch?  
 5. If 24 men can do a piece of work in 120 days, in how many days could 20 men do the same work?

## LESSON LXXXI.

1. How many times is 4371 contained in 5046278?
2.  $\frac{1}{4}$  of 35840637 —  $\frac{1}{2}$  of 21656272 — 21 times 640 = ?
3. Reduce to mixed numbers  $\frac{487398}{121}$ ,  $\frac{3584798}{2483}$ .
4. What is the cost of 2 hogsheads of molasses, at \$10 a pint?  
What is the cost of 2 bushels of berries, at \$.08 a pint?
5. A man bought 240 bushels of wheat, at the rate of 3 cents a quart, and sold it at a gain of 4 cents a bushel. What did he receive for it?

} Add ans.

## LESSON LXXXII.

1.  $\frac{2}{3}$  of \$76407.30 + (\$848.98  $\times$  79) equals how many?
2. 1000000 — 678487 — 98588 — 8976 — 549 — 89 = how many?
3. Reduce  $478\frac{99}{11}$  to an improper fraction.  
Reduce  $2\frac{1154}{11}$  to a mixed number.
4. What is the cost of 128 pints, at \$1.30 per bushel?  
What is the cost of 96 quarts, at \$.50 per bushel?
5. In one flock there are 2550 sheep, in another 4 times as many, in another  $\frac{1}{2}$  as many as in both the others. How many sheep in the three flocks?

Add answers.

## LESSON LXXXIII.

1.  $\frac{2}{3}$  of 761733 + (84607  $\times$  976) equals how many?
2. 6849678 — 987654 four times equals how many?
3. What is the cost of 75 acres of land, at \$1.84 per rod?

4. What is the cost of grading 7 miles of road, at \$17.17 a rod?

5. A has \$406, B has 18 times as much, and C has 4 times as much as A and B. How much have all?

## LESSON LXXXIV.

1.  $\frac{1}{2}$  of  $63495 + (674 \times 809) + (5226412 \div 2567) = ?$

2. Reduce  $978\frac{8}{11}$  to an improper fraction.

Reduce  $2\frac{1}{3}\frac{3}{4}$  to a mixed number.

3. In northern Dakota, land is valued at \$1.25 an acre; what is a square mile worth?

4. What is the cost of 117 yards and 2 feet of print, at \$.02 a foot? } Add ans.

What is the cost of 35532 inches of ribbon, at \$1.25 a yard?

5. A speculator bought 8972 sheep at \$3 apiece. He sold  $\frac{1}{2}$  of them at \$3.15 each, and the remainder, which was 4486 sheep, at \$3.50 each. What did he gain?

## LESSON LXXXV.

1.  $(\$9.65 \times 578 \div 289) + \frac{1}{2}$  of \$426348 = how much?

2. Reduce  $429\frac{8}{7}$  to an improper fraction.

Reduce  $2\frac{1}{3}\frac{3}{4}$  to a mixed number.

3.  $625 \times 89 \div 25 \times 69 \div 13 \times 96 \div 12$  equals how many?

4. What is the cost of 2 hogsheads of vinegar, at 2 cents a gill? } Add ans.

What is the cost of 316032 gills, at 40 cents a gallon?

5. A man bought 3 horses at \$160 each, 15 cows at \$39 each, 15 hogs at \$7 each, and gave in payment, land worth \$130 an acre. How many acres did he give?

## LESSON LXXXVI.

1. The multiplicand is 8460 and the multiplier is 8097; what is the product?

2. Divide 47254149 by 4674.

3.  $\frac{3}{11}$  of  $\$890758 + (\$897 \times 679)$  equals how much?

4. What is the cost of 8 bushels and 2 pecks of beans, at 13 cents per pint? } Add ans.  
 What is the cost of 9 quarts and 2 pints of milk, at 2 cents per gill?

5. John saved \$30.75; his father gave him \$461.25, and his mother gave him \$922.50. He bought 50 acres of land at \$25 per acre, and the remainder he gave for farming utensils and stock. How much did he give for the utensils and stock?

## LESSON LXXXVII.

1. 6346360 divided by 546 equals what?

2.  $\frac{3}{11}$  of  $967604 + (876 \times 89) + (1935208 \div 11 \div 2) = ?$

3. Reduce  $2\frac{222}{888}$  to a mixed number.

Reduce  $2\frac{161}{176}$  to a mixed number.

4. If a machine cuts 1440 nails an hour, how many nails will it cut in 37 days and 6 hours, working 12 hours a day?

5. What will it cost to grade 1 mile and 15 rods of road, at \$13.25 per rod?

## LESSON LXXXVIII.

1. How many times as great as  $72 \times 56$  is  $21 \times 48 \times 144 \times 84$ ?

2.  $\frac{4}{5}$  of 94728 —  $\frac{7}{12}$  of 20280 —  $(650 \times 48) = ?$

3.  $4\frac{888}{444} = ?$   $827\frac{44}{44} = ?$

4. Cost of 240 yards of cloth, at 3¢ an inch? } Add ans.  
 Cost of 7200 inches, at 75¢ per yard? }
5. A man earns 30 cents an hour, and works 10 hours a day, and 6 days during the week. How much more would he earn in 48 weeks, if he received 35 cents an hour, working 12 hours a day, and 5 days in the week?

## LESSON LXXXIX.-

1.  $1572 \times 84 \div 393 = ?$   
 2.  $20000 - 987$  six times  $= ?$   
 3. Multiply  $\frac{7}{8}$  of 16569 by  $\frac{1}{4}$  of 174.  
 4. Reduce 76 bushels, 3 pecks to pints. }  
 Reduce 84 bushels, 1 peck to pints. } Add ans.  
 Reduce 16 bushels, 1 peck to pints. }
5. A man bought 648 square yards of carpet at \$2.52 per yard, and sold it at a gain of 486 dollars. What was his selling price per yard?

## LESSON XC.

1. 24 days, 10 hours  $=$  how many minutes? }  
 42 days, 40 min.  $=$  how many minutes? }  
 Add, and multiply by 78.
2.  $48371^{\frac{1}{2}} = ?$   $4731^{\frac{1}{2}} = ?$   
 3. Divisor 372, quotient 5804, remainder 289; what is the dividend?  
 4. What cost 20 sacks of coffee, each containing 56 lbs., at 2 cts. an oz.?  
 5. A farmer sold 640 bushels of oats at 2 cts. a quart, 40960 quarts at 65 cts. per bushel. He received in payment groceries to the amount of 600 dollars and the remainder in cash. Give the amount of cash.



## LESSON XCI.

1.  $\$280982 \div 107 + (\$65.50 \times 786) = ?$
2.  $786498 - 354868 - 21346 - 876 - 989 = ?$
3. What will 89 cords of wood cost, at  $87\phi$  a cu. ft.?
4. Bought 5292 in. of lace at 3 cts. an in., and sold at 47 cts. a ft. Gain = ?
5. A man had  $\$405760$ ; he gave  $\frac{1}{4}$  of it to his daughter, and with a part of the remainder he bought 4 houses, each worth  $\$12680$ . How much money had he left after buying the houses?

## LESSON XCII.

1.  $\frac{7}{16}$  of  $\$7312 \times (6084 \div 78) = ?$
2.  $469\frac{10}{11} =$  what improper fraction?  
 $287\frac{10}{11} = ?$
3. What is the cost of 6 bales, 2 quires, at 1 cent a sheet?
4. The pendulum of a clock vibrates 60 times a minute; how many times does it vibrate in 13 hours?
5. A man sold 3 hogsheads of syrup at 18 cents a quart, and invested in nuts at 4 cents a pint. How many pints did he buy?

## LESSON XCIII.

1.  $\frac{11}{12}$  of  $81228 + \frac{1}{3}$  of  $67456 + (777384 \div 3599) = ?$
2.  $70074 - 902$  six times = ?
3. What will it cost to excavate 17 cubic yards of earth at 3 cents a cubic foot?
4. Cost of 2 tons 3 cwt., at 5 cents per pound? } Add  
Cost of 6144 pints, at  $\$1.40$  per bushel? } ans.
5. In one pasture there are 135 sheep, in another 4 times as many, and in another as many as in the first and second. What is the value of the flock, at  $\$3.75$  a head?

## LESSON XCIV.

1.  $\frac{3}{4}$  of 81792 +  $\frac{1}{12}$  of 110148 —  $(876 \times 98) = ?$
2.  $408\frac{57}{118} = ?$   $258874 = ?$
3. Multiply 4896 by 809.
4. Find the cost of 2 tons, at 3 cents an ounce?  
Find the cost of 96000 pounds, at 27 dollars a ton?

Add answers.

5. A man earns 25 cents an hour; his two sons each earn  $\frac{2}{3}$  as much as the father. How much will they all earn in 20 weeks, by working 12 hours a day and 5 days in a week?

## LESSON XCV.

1. If the product is 5823748 and the multiplier 1204, what is the multiplicand?
2. How many seconds in the month of December?
3.  $\frac{7}{11}$  of 21659 +  $\frac{4}{5}$  of 43350 +  $(648 \times 97) = ?$
4. How many mills in 17 dollars, 9 dimes?  
How many dollars in 375000 mills?
5. A man bought an equal number of sheep and calves, paying \$6.75 a head for the sheep, and \$9.25 a head for the calves. He invested \$448. How many of each did he buy?

## LESSON XCVI.

1. Divisor 431, quotient 659, remainder 172; give the dividend.
2.  $398\frac{79}{240} = ?$   $84936 = ?$
3.  $(487 \times 936) - (748 \times 157) - 1300 - 50 = ?$
4. What is the cost of 2 tons of beeswax, at 6 cts. an oz.  
What is the cost of 224000 oz. of honey, at 560 dollars per ton?
5. How many sheets of paper, 1 foot square, could be cut from 18 square yards, allowing nothing for waste?

## LESSON XCVII.

1.  $\frac{7}{8}$  of 816456— $\frac{3}{4}$  of 126018 = ?
2.  $864\frac{20}{100} = ?$   $22\frac{75}{100} = ?$
3. What is the cost of 13 cords of wood, at 10 cents a cubic foot?
4. What is the cost of 16 bu. 1 pk., at 2 cts. a pt.?  
What is the cost of 58112 pts., at 50 cts. a bu.?
5. I bought 31 yards at 3 cts. an inch, 84 lbs. at 2 cts. an oz., 12 reams at 1 cent a sheet. I sold all for \$621.92. What was my gain or loss?

## LESSON XCVIII.

1.  $(\$1554768 \div 7198) + \frac{3}{4}$  of \$76147.83 = ?
2.  $83476 - 8486$  four times = ?
3. What is the cost of 116 square yards of carpet, at 30 cts. a square foot?
4. I bought 624 gal. of oil at 25 cts. a gallon, and sold it at the rate of 4 gills for 4 cts. What was my gain?
5. What is the cost of 3 tons of cheese, at 17 cts. a pound?

## LESSON XCIX.

1.  $\frac{5}{8}$  of 68535— $(807 \times 29)$ — $(70645 \div 995) = ?$
2.  $408\frac{25}{100} = ?$   $27\frac{63}{100} = ?$
3. How many times will a wheel, 13 ft. 4 in. in circumference, revolve in going 35480 yards?
4. I bought 16 bushels 3 pecks of apples at 30 cents a peck, and sold them at 5 cts. a quart. What was my gain?
5. If one acre yield 44 bushels, 2 pecks of wheat, how many bushels will 78 acres produce?

## LESSON C.

1.  $\frac{2}{3}$  of \$8548.32 +  $\frac{1}{3}$  of \$6259.41 - (\$6686640 ÷ 7530) = ?
2. Cancel equal factors of both dividend and divisor in the following examples:  

$$\frac{2 \times 3 \times 4 \times 5 \times 6 \times 7}{3 \times 4 \times 5 \times 6 \times 7 \times 8} = ? \quad \frac{1 \times 2 \times 4 \times 5 \times 6}{2 \times 4 \times 5 \times 6 \times 7} = ?$$
3.  $946\frac{20}{100} = ? \quad 111\frac{1}{10} = ?$
4. What is the cost of 89 bu. 2 pks. of beets, at 15 cts. a pk. ?  
 What is the cost of 25888 gills of milk, at 5 cts. a qt. ?
5. If 40 men can build a boat in 120 days, how many men will it take to do the same work in 12 days?

} Add ans.

## LESSON CI.

1.  $\frac{2}{3}$  of 32553 +  $\frac{1}{3}$  of 79096 - (95550 ÷ 350) = ?
2.  $\frac{2 \times 9 \times 4 \times 2}{3 \times 8 \times 6 \times 4} = ? \quad \frac{5 \times 20 \times 15}{10 \times 10 \times 30} = ?$
3.  $460 \times 625 \div 25 \times 144 \div 12 \times 77 \div 11 \div 7 = ?$
4. What is the cost of 128 pks. 3 qts. of tomatoes, at 5 cts. a quart ?  
 What is the cost of 8288 pints of milk, at 18 cents a gallon ?
5. If 120 men can build a boat in 600 days, how many men will it take to build one in half that time?

} Add ans.

## LESSON CII.

1.  $\frac{2}{3}$  of \$9482.16 +  $\frac{1}{3}$  of \$6787.44 = ?
2.  $\frac{14 \times 16 \times 27}{18 \times 24 \times 29} = ? \quad \frac{6 \times 16 \times 4 \times 1}{8 \times 12 \times 10 \times 2} = ?$
3. 10018 - 257 six times = ?

4. What is the cost of 19 pks. 1 pt. of oats, at \$.01 a pt. ? }  
 What is the cost of 2 lhds. of syrup, at \$.05 a pt. ? }

Add answers.

5. If 75 men can build a boat in 150 days, how many days will it take 25 men to build it ?

## LESSON CIII.

- $\frac{4}{5}$  of 69687 —  $\frac{1}{11}$  of 9823 —  $(549 \times 56) = ?$
- $\frac{5 \times 3 \times 7}{6 \times 7 \times 10} = ?$      $\frac{2 \times 6 \times 14}{3 \times 7 \times 12} = ?$      $\frac{3 \times 5 \times 4 \times 7}{5 \times 9 \times 7 \times 12} = ?$
- $846\frac{1}{2} = ?$      $2\frac{1}{2} \times 10 = ?$
- Find the cost of grading 6 miles, at \$2.75 per rod.  
 Find the cost of paving 984 sq. yds., at \$.75 per sq. ft.
- A man fenced a lot, 105 feet long by 450 ft. deep, at 35 cents a yard. What was the entire cost ?

## LESSON CIV.

- $\frac{1}{5}$  of 25728) +  $\frac{3}{5}$  of 459780 +  $(847 \times 356) = ?$
- $\frac{5 \times 6 \times 4 \times 3}{6 \times 7 \times 15 \times 8} = ?$      $\frac{5 \times 3 \times 4 \times 1}{6 \times 4 \times 9 \times 11} = ?$
- $984 \times 784 \div 12 \div 7 \times 96 \div 4 \div 8 = ?$
- At 2 cts. an inch, what will 5 yds. 2 ft. of ribbon cost ?  
 At 72 cts. per yard, what will 7200 inches of ribbon cost ?
- A woman took cloth at 24 cts. a yard, in exchange for 2 doz. chickens, each weighing 3 lbs., at 1 ct. an ounce. How many yards of cloth did she get ?

Add ans.

## LESSON CV.

- $(5638 \times 976) - (4376 \times 875) = ?$
- $\frac{7 \times 16 \times 10 \times 5}{8 \times 20 \times 11 \times 14} = ?$      $\frac{4 \times 18 \times 5 \times 1}{9 \times 20 \times 6 \times 16} = ?$

3. Divide 4968350 by 2400.
4. Find the cost of 2 cwt. at 1 cent an ounce.  
Find the cost of 4800 ounces, at 12 dollars a cwt.
5. A man carries away 37 cubic yards of earth, at a cost of 6 cts. a cubic foot. He is paid in groceries to a certain amount, and receives 10 dollars in cash. What was the value of the groceries?

## LESSON CVI.

1.  $\frac{11}{8}$  of 29268 + ( $\frac{1}{3}$  of 86967) — 10479 five times = ?
2. Divide 477360 by 4590.
3.  $\frac{4 \times 18 \times 5 \times 1}{9 \times 20 \times 7 \times 16} = ?$        $\frac{4 \times 22 \times 9 \times 6}{11 \times 27 \times 16 \times 7} = ?$
4. What cost 4 tons 18 cwt. of hay, at 50¢ per cwt.?
5. Bought 2 cwt. 33 lbs. of butter at 27¢ a pound; 5 cwt. 96 pounds at 29¢ a pound, and sold it all for 32¢ a pound. What was the gain?

## LESSON CVII.

1.  $(3695 \times 987) - (1738 \times 846) = ?$
2.  $\frac{9 \times 7 \times 8 \times 11 \times 5}{35 \times 16 \times 11 \times 18 \times 20} = ?$   
 $\frac{12 \times 8 \times 2 \times 18 \times 5}{32 \times 9 \times 11 \times 20 \times 16} = ?$
3.  $478\frac{11}{16} = ?$        $2\frac{1}{2}\frac{1}{4} = ?$
4. Reduce 9 gallons 1 pint to gills.  
Reduce 17 gal. 3 qts. to gills.
5. A wine merchant bought 640 gal. 3 qts. of wine, at the rate of 40 cents a pint. He lost 100 gallons by leakage, and sold the remainder at 15 cents a gill. What was the gain or loss?

## LESSON CVIII.

1.  $\frac{1}{11}$  of 52656 +  $\frac{1}{17}$  of 98974 +  $(896 \times 43) = ?$
2. How many more units are there in  $984 \times 224$  than in  $712 \times 56$ ?

$$3. \frac{5 \times 8 \times 11 \times 7 \times 12}{16 \times 22 \times 49 \times 24 \times 20} = ?$$

$$\frac{9 \times 4 \times 7 \times 12 \times 10}{20 \times 21 \times 36 \times 18 \times 27} = ?$$

4. Reduce 4 yards 2 feet to inches; 7 yards 9 inches to inches. Add answers and multiply by 37.

5. A man starts from a building to carry bricks from a pile 45 feet distant, and containing 2400 bricks. If he carries 12 each time, how many yards will he have traveled when he reaches the building with the last load?

## LESSON CIX.

$$1. \frac{1}{4} \text{ of } \$629.01 + \frac{1}{7} \text{ of } \$649.28 + (\$8742 \times 98) = ?$$

$$2. \frac{4 \times 3 \times 6 \times 3}{9 \times 2 \times 12 \times 24} = ? \quad \frac{1 \times 4 \times 5 \times 8 \times 5}{2 \times 9 \times 6 \times 10 \times 12} = ?$$

$$3. 897\frac{1}{2} = ? \quad 142\frac{1}{2} = ?$$

4. What is the cost of 2 bbl. of flour, at \$.05 per lb.?

What is the cost of 11 bushels 3 quarts of oats, at \$.01 per pint?

5. If 13 boys can dig a ditch in 1053 hours, how long will it take 39 boys to dig one of the same size?

## LESSON CX.

$$1. \frac{1}{11} \text{ of } \$5817.57 + \frac{1}{12} \text{ of } \$3257.64 + (\$98.76 \times 608) = ?$$

$$2. \frac{4 \times 2 \times 26 \times 4}{13 \times 8 \times 2 \times 3} = ? \quad \frac{3 \times 6 \times 3 \times 7 \times 4}{7 \times 9 \times 11 \times 12 \times 6} = ?$$

$$3. 8960 \times 225 \div 15 \div 3 \times 99 \div 11 = ?$$

4. What will 16 pecks of cranberries cost, at 5¢ a pint? }  
 What will 189 gal. of vinegar cost, at \$10 per hhd.? } Add.  
 5. If 13 boys can dig a ditch in 1053 hours, how many boys will it take to dig the same in 81 hours?

## LESSON CXI.

1.  $\frac{1}{12}$  of \$81627 +  $\frac{1}{3}$  of \$3860.96 - (\$68.97  $\times$  76) = ?  
 2.  $\frac{4 \times 5 \times 12 \times 7}{12 \times 7 \times 24 \times 11} = ?$        $\frac{1 \times 9 \times 36 \times 12}{2 \times 18 \times 14 \times 3} = ?$   
 3. 897654 - 87965 six times.  
 4. What is the cost of 25824 gills of wine, at \$4.50 per gallon?  
 What is the cost of 50624 pints of oats, at 30¢ per bushel?  
 5. If 16 men can build a wall in 192 hours, how many days, of 12 hours each, would it take 8 men to build it?

## LESSON CXII.

1.  $\frac{2}{3}$  of 713745 -  $\frac{5}{8}$  of 163267 - (758  $\times$  69) = ?  
 2.  $\frac{6 \times 11 \times 7 \times 9 \times 3}{21 \times 18 \times 22 \times 24 \times 7} = ?$   
 $\frac{8 \times 12 \times 10 \times 7 \times 4 \times 3}{49 \times 15 \times 32 \times 12 \times 36 \times 1} = ?$   
 3.  $836\frac{1}{11} = ?$        $24\frac{1}{11} = ?$   
 4. How many sq. inches in 7 sq. yds. 7 sq. ft.? }  
 How many sq. inches in 9 sq. yds. 100 sq. in.? } Add.  
 5. Bought 2 tons 10 cwt. of coal at 30 cts. per cwt.; 12 cords of wood at 7 dollars a cord; 3 cwt. of maple sugar at 1 cent an oz., and paid for it in wheat at 60 cents per bushel. How many bushels did it take?



## LESSON CXIII.

1.  $\frac{4}{11}$  of  $9647 \times 5400 \div 25 + (698 \times 74) = ?$

2.  $\frac{3 \times 7 \times 11 \times 9 \times 4}{9 \times 22 \times 18 \times 10 \times 28} = ?$

$\frac{12 \times 9 \times 2 \times 8 \times 6 \times 5 \times 81}{27 \times 14 \times 11 \times 20 \times 72 \times 7} = ?$

3.  $1728 \times 75 \div 25 \div 24 \times 63 \times 7 \div 49 = ?$

4. A man bought 2 square miles of land, and divided it into lots, each containing 40 acres. How many lots were there?

5. He paid \$18500 for the land (in the preceding example), and sold half the lots at 75 dollars an acre, and the remainder at 80 dollars an acre. What was his gain?

## LESSON CXIV.

1.  $(7846 \times 37) - (483 \times 247) - (499 \times 87) \times 93 = ?$

2.  $\frac{3 \times 9 \times 7 \times 12 \times 11 \times 6 \times 100}{44 \times 27 \times 63 \times 14 \times 12 \times 10} = ?$

$\frac{5 \times 7 \times 9 \times 4 \times 3 \times 48}{6 \times 8 \times 12 \times 5 \times 2} = ?$

3.  $940004 - 43906$  five times  $= ?$

4. How many pieces, an inch square, can be cut from 3 square yards, and what would be the cost, at 5 cts. for every 2 square inches?

5. Bought 3 hhds. 2 qts. of molasses at the rate of 6 cts. a pint, 1 hhd. 54 gal. at the rate of 65 cts. per gallon, and sold it all at the rate of 3 cts. a gill. Did I gain or lose, and how much?

## LESSON CXV.

1.  $\frac{1}{11}$  of 85940 +  $\frac{1}{11}$  of 63503 —  $(1554768 \div 7198) = ?$
2.  $\frac{12 \times 6 \times 9 \times 2}{18 \times 2 \times 27 \times 3} = ?$        $\frac{8 \times 4 \times 9 \times 12}{16 \times 12 \times 36 \times 2} = ?$
3.  $8460\frac{1}{11} = ?$        $1147\frac{1}{11} = ?$
4. What is the cost of a pile of wood containing 1152 cubic feet, at \$7.75 per cord?
5. A man gave in exchange for a farm valued at \$3000, 12 beeves at \$17 each, 5 horses at \$175 each, and 17 cows at \$35.50 each, and the rest in cash. How much cash did he give?

## LESSON CXVI.

1.  $\frac{1}{4}$  of \$513.12 +  $\frac{1}{4}$  of \$574.74 +  $(\$89.78 \times 98) = ?$
2.  $\frac{1}{11} \times \frac{1}{11} \times \frac{1}{11} \times \frac{1}{11} \times \frac{1}{11} = ?$        $\frac{1}{11} \times \frac{1}{11} \times \frac{1}{11} \times \frac{1}{11} = ?$
3.  $590 \times 196 \div 14 \times 256 \div 16 \div 14 \times 80 = ?$
4. What will it cost to dig a cellar, if 1350 cubic feet of earth are to be taken out, at \$1.75 a cubic yard?
5. I bought 188 bu. of potatoes at 84 cts. a bu., 76 bu. at 75 cts. a bu.;  $\frac{1}{4}$  of them rotted, and I sold the remainder at 25 cts. a peck. Did I gain or lose, and how much?

## LESSON CXVII.

1.  $\frac{1}{4}$  of \$8927.52 +  $\frac{1}{4}$  of \$77304 +  $(\$7697090 \div 1615) = ?$
2.  $\frac{1}{11} \times \frac{1}{11} \times \frac{1}{11} \times \frac{1}{11} = ?$        $\frac{1}{11} \times \frac{1}{11} \times \frac{1}{11} \times \frac{1}{11} = ?$
3.  $5937500 - 989567$  three times = ?
4. What is the entire value of 15552 cubic feet of a gold mine, at \$1.60 a cubic foot?
5. I bought 96 bu. of oats at 30 cts. a bu., 196 bu. at 45 cts. a bu.;  $\frac{1}{4}$  of them were stolen, and I sold the remainder at 15 cts. a peck. What was my loss?

## LESSON CXVIII.

1. Multiply the difference between 8756 and 2001 by the product of 89 and 6.

$$2. \frac{4 \times 7 \times 11 \times 12 \times 7 \times 408}{21 \times 55 \times 16 \times 42 \times 9} = ?$$

$$\frac{9 \times 4 \times 100 \times 5 \times 8 \times 12}{10 \times 36 \times 4 \times 18} = ?$$

$$3. 5436 \frac{11}{111} = ? \quad 14 \frac{88}{88} \frac{24}{24} = ?$$

4. Reduce 2 square miles to acres, and divide into lots containing 2 acres each. If from each lot is cut 8 tons of hay valued at 12 dollars per ton, what will be the entire value of the hay?

5. Three boys gathered respectively 10, 12 and 14 bushels of nuts, and sold them at 10 cts. a quart. How much did they receive for all?

## LESSON CXIX.

1.  $\frac{1}{3}$  of  $60576 \div 89$  times the product of 62 and 98 = ?

$$2. \frac{4 \times 3 \times 9 \times 12 \times 76}{5 \times 16 \times 8 \times 27 \times 2} = ?$$

$$\frac{9 \times 8 \times 11 \times 14 \times 5 \times 3}{28 \times 33 \times 15 \times 27 \times 6 \times 4} = ?$$

$$3. 6482 \times 84 \div 42 \times 12 \div 24 \times 36 = ?$$

4. How many blocks covering 144 square inches would it take to pave a street containing 4608 square yards?

5. If into a cistern of a capacity of 128 gallons, 54 gallons run in in an hour and 46 run out, in how many minutes will it be filled?

## LESSON CXX.

1.  $\frac{4}{5}$  of 37709 — ( $\frac{2}{5}$  of 97335) — 3782 five times = ?
2.  $\frac{9 \times 12 \times 24 \times 36}{18 \times 27 \times 3 \times 4} = ?$        $\frac{4 \times 7 \times 108 \times 11 \times 8}{7 \times 12 \times 21 \times 32 \times 11} = ?$
3.  $4362\frac{11}{12} = ?$        $524\frac{7362}{25} = ?$
4. Reduce 36 square yds. 7 square ft. to square in. }  
Reduce 28 square yds. 3 square ft. to square in. } Add.
5. If the heart beats 70 times in a minute, how many times does it beat in a day?

## LESSON CXXI.

1.  $\frac{5}{8}$  of \$3881.52 +  $\frac{2}{11}$  of \$6789.31 + (\$78.67  $\times$  89) = ?
2.  $\frac{2}{3} \times \frac{4}{5} \times \frac{3}{4} \times \frac{2}{5} \times \frac{1}{2} = ?$        $\frac{7}{8} \times \frac{1}{2} \times \frac{3}{4} \times \frac{1}{2} = ?$
3.  $689\frac{101}{11} = ?$        $274\frac{322}{88} = ?$
4. What is the cost of 1280 cubic feet of wood, at \$9.75 per cord?
5. My farm is worth \$9900; my mill is worth \$300 less than  $\frac{1}{3}$  the value of my farm. What is my mill worth?

## LESSON CXXII.

1.  $\frac{2}{3}$  of \$3706.80 +  $\frac{1}{5}$  of \$8887.32 + (\$78.96  $\times$  96) = ?
2.  $990 \times 625 \div 25 \times 96 \div 12 \times 88 \div 11 \div 25 = ?$
3.  $\frac{6}{15} \times \frac{2}{5} \times \frac{7}{15} \times \frac{8}{25} \times \frac{1}{2} = ?$        $\frac{7}{11} \times \frac{3}{4} \times \frac{1}{2} \times \frac{6}{15} = ?$
4. What is the cost of excavating 7290 cubic ft. of earth from a cellar, at 79 cts. a cubic yard?
5. My farm is worth \$9900, my mill is worth \$3000; my neighbor's farm is worth  $\frac{1}{15}$  of the difference between the value of my farm and mill. What is the value of my neighbor's farm?

## LESSON CXXIII.

1.  $\frac{2}{11}$  of \$7452.72 +  $\frac{7}{12}$  of \$7714.92 + (\$97.63  $\times$  867) = ?
2.  $\frac{2}{3} \times \frac{1}{4} \times \frac{3}{7} \times \frac{1}{5} = ?$   $\frac{2}{3} \times \frac{1}{4} \times \frac{1}{5} \times \frac{3}{7} = ?$
3. 674892—82164 four times = ?
4. What cost 22464 square inches of ebony, at \$1.75 a square foot?
5. I bought 2 barrels of wine at \$4.25 per gallon, and sold  $\frac{1}{2}$  of it at \$5 per gallon, and the remainder at \$4.20. What was my gain?

## LESSON CXXIV.

1.  $\frac{1}{3}$  of 50578 +  $\frac{7}{12}$  of 71472— $\frac{4}{5}$  of 25775 = ?
2. 904070—100907 four times = ?
3. 
$$\frac{48 \times 22 \times 9 \times 12 \times 8 \times 5}{11 \times 4 \times 40 \times 36 \times 15 \times 1} = ?$$

$$\frac{33 \times 28 \times 100 \times 7 \times 4 \times 3}{10 \times 12 \times 49 \times 10 \times 11 \times 7} = ?$$
4. What is the cost of 60 reams of paper, at 15 cts. a quire?  
What is the cost of 2880 sheets of paper, at \$5.15 a ream?  
Add.
5. If one sheet of paper makes 8 leaves, and in a certain book there are 480 leaves, how many sheets will be required to make 8 books of the same size?

## LESSON CXXV.

1. Quotient 4968, divisor 847, and remainder 576; what is the dividend?
2.  $\frac{1}{4}$  of 78765—( $\frac{2}{17}$  of 97835)—4809 five times = ?
3. 
$$\frac{20 \times 6 \times 18 \times 3 \times 15 \times 11}{11 \times 10 \times 5 \times 9 \times 4} = ?$$

$$\frac{24 \times 36 \times 5 \times 7 \times 55 \times 3}{45 \times 11 \times 7 \times 15 \times 4 \times 8} = ?$$

4. Bought 3 tons 17 cwt. of hay, at 50 cts. per cwt.; 5 cwt. 85 lbs. of flour, at 6 cts. a lb.; and 2 lbs. 4 oz. of indigo, at 12 cts. an oz. What was the entire amount?

5. I paid 7 dimes each for 8 books, and \$1.25 each for 3 books, and 15 cents each for 9 primers. How many cents did I pay for all?

## LESSON CXXVI.

1. The product of 1728 and 192, divided by the difference between 2300 and 1436, and multiplied by the sum of 83 and 125 = ?

$$2. 378\frac{204}{143} = ? \quad \frac{594672}{143} = ?$$

$$3. \frac{9 \times 100 \times 84 \times 6 \times 5}{10 \times 7 \times 30 \times 12 \times 9} = ?$$

$$\frac{5 \times 6 \times 7 \times 8 \times 9 \times 10 \times 11 \times 12}{7 \times 11 \times 96 \times 20 \times 33 \times 4 \times 2} = ?$$

4. If 1 ton 5 cwt. of sugar is worth 11 cts. a pound, how much wheat at 50¢ a bushel will be required to pay for it?

5. Bought 120 sheep at \$6.50 each, 5 horses at 175 dollars each, and 16 cows at \$46.25 each, and gave in payment 15 tons of coal at 12 dollars per ton, and the remainder in cash. What was the amount of the cash payment?

## LESSON CXXVII.

$$1. \frac{4}{5} \text{ of } \$4318.80 + \frac{4}{5} \text{ of } \$9625.77 + (\$874.98 \times 76) = ?$$

$$2. \frac{2}{3} \times \frac{4}{5} \times \frac{7}{8} \times \frac{11}{12} \times \frac{13}{14} = ? \quad \frac{7}{8} \times \frac{24}{31} \times \frac{13}{18} \times \frac{9}{18} = ?$$

$$3. 46897\frac{12}{201} = ? \quad \frac{208922}{874} = ?$$

4. Find the cost of 4320 sheets of paper, at \$2.60 per ream.  
Find the cost of 14 reams of paper, at 2¢ a sheet.

Add.

5. If 28 horses each eat 8 quarts of oats in a day, how many bushels of oats will 196 horses eat, allowing the same number of quarts for each horse?

## LESSON CXXVIII.

1. The product is 6543250; the multiplier is 125. What is the multiplicand?

2.  $\frac{1}{2} \times \frac{2}{3} \times \frac{3}{4} \times \frac{4}{5} \times \frac{5}{6} = ?$   $\frac{2}{3} \times \frac{3}{4} \times \frac{4}{5} \times \frac{5}{6} = ?$

3.  $889 \times 144 \div 12 \times 72 \times 16 \div 12 \div 2 = ?$

4. What is the cost of 8 bu. 2 qts. of berries, at 5¢ a pt.?

What is the cost of 30976 gills of milk, at 19¢ a gal.?

5. Bought 874 gal. of milk at 18 cts. a gallon, 644 gallons at 15 cents a gallon;  $\frac{1}{2}$  of it was sold at 20 cents a gallon, and the remainder was sold to customers at 6 cents a quart. What was the gain?

## LESSON CXXIX.

1.  $\frac{5}{18}$  of  $98532 + (769080 \div 435) = ?$

2.  $\frac{2}{3} \times \frac{3}{4} \times \frac{4}{5} \times \frac{5}{6} = ?$   $\frac{3}{4} \times \frac{4}{5} \times \frac{5}{6} \times \frac{6}{7} \times \frac{7}{8} = ?$

3.  $4682132 - 49678 - 24687 - 3210 - 47811 = ?$

4. What is the cost of 5 cords of wood, at 5 cents a cubic foot?

5. 12 horses eat 48 pecks of oats. How many bushels, at the same rate, will 700 horses eat?

## LESSON CXXX.

1. Divisor 386, quotient 948, remainder 174; what is the dividend?

2.  $\frac{2}{3} + \frac{1}{3} = ?$   $\frac{4}{5} + \frac{1}{5} = ?$

3.  $4970 \times 56 \div 28 \div 70 \times 442 \div 221 \times 72 \times 18 = ?$

4. What is the cost of 9 bushels of tomatoes, at 5¢ per quart?

What is the cost of 1152 pts. of berries, at \$3.75 per bu.?

Add.

5. What will be the cost of a fence inclosing a lot 40 rods in length and 28 rods in width, at \$3.70 per rod?

## LESSON CXXXI.

1.  $\frac{4}{21}$  of 539616 +  $\frac{3}{14}$  of 937398 -  $\frac{1}{15}$  of 94695 = ?
2.  $\frac{4}{7} + \frac{1}{7} + \frac{4}{7} = ?$   $946\frac{381}{488} = ?$
3. 70400 - 6407 six times = ?
4. What is the cost of 2 tons 75 lbs. of cheese, at 1¢ an oz. ?  
What is the cost of 6400 oz. of iron, at \$2 per cwt. ?
5. A man having \$250000 divided it into 4 equal portions, giving three of them to his family, and the remaining portion was to be divided equally among 5 benevolent institutions. What amount was given to each institution ?

Add.

## LESSON CXXXII.

1.  $(764 \times 895) + (873 \times 98) - (6475 \times 87) = ?$
2.  $\frac{3}{12} + \frac{7}{12} + \frac{9}{12} = ?$   $245\frac{7638}{1476} = ?$
3. The minuend is 847630, remainder is 159378; what is the subtrahend ?
4. What will 34 acres of land cost, at \$75.25 per acre ?  
What will 25920 sq. in. of carpet cost, at \$1.25 per sq. yd ?
5. What will be the cost of removing 4328 cubic yards of sand, at \$2.10 a load, each to contain 4 cubic yards ?

Add.

## LESSON CXXXIII.

1.  $\frac{2}{3}$  of \$4841.10 +  $\frac{1}{3}$  of \$50791 +  $(\$97.87 \times 87) = ?$
2.  $468\frac{111}{88} = ?$   $\frac{6}{13} + \frac{5}{13} + \frac{7}{13} = ?$
3.  $960 \times 121 \div 11 \div 12 \times 225 \div 15 = ?$



4. Find the cost of 13 bushels 5 quarts of oats, at 2 cents per quart? }  
Find the cost of 2 lbs. 2 oz. of cinnamon, at 18¢ per oz. ? } Add.
5. Mr. Smith had \$10800. He gave  $\frac{1}{4}$  of it to his son,  $\frac{3}{8}$  of what he then had to his wife, and what was then left he divided equally among 5 nephews. What was each nephew's share?

LESSON CXXXIV.

1.  $\frac{3}{4}$  of \$2212.47 +  $\frac{5}{11}$  of \$27038 - (\$7690800  $\div$  870) = ?
2.  $\frac{213206}{348} = ?$   $\frac{5}{14} + \frac{8}{14} + \frac{11}{14} =$  what mixed number?
3. 90876 - 2159 six times = ?
4. Find the cost of 505408 pints of milk, at 20 cents per gal. }  
Find the cost of 505408 pints of oats, at 37 cents per bushel. } Add.
5. A man bought 1 hogshead of vinegar at 35 cents per gal., 2 barrels at 40 cents per gal. He sold it at 10 cts. per qt. What was his gain?

LESSON CXXXV.

1.  $\frac{5}{14}$  of 874804 + (964  $\times$  198) - 74855 = ?
2. 20189764  $\div$  7340 = ?
3.  $\frac{3}{8} \times \frac{1}{4} \times \frac{12}{5} \times \frac{15}{14} \times \frac{11}{14} = ?$   
 $\frac{5}{9} + \frac{7}{9} + \frac{11}{9} =$  what mixed number?
4. Find the cost of 291492 in. of ribbon, at \$.75 a yard. }  
Find the cost of 1 ton of corn meal, at \$.03 a lb. } Add.

5. A man exchanged some land, worth \$35 an acre, for dry goods worth \$1770.25, hardware worth \$974.75, and groceries worth \$1980. How many acres of land did he give?

## LESSON CXXXVI.

1. Divide the product of 981 and 896 by the difference between 44557 and 43685, and multiply the quotient by the sum of 85, 63, 98 and 102.

$$2. \frac{\frac{3}{11} + \frac{2}{11} + \frac{4}{11} + \frac{7}{11}}{\frac{84 \times 63 \times 5 \times 132 \times 2 \times 10}{100 \times 24 \times 7 \times 55 \times 9 \times 12}} = ?$$

3. Divide 478590 by 630.

4. What is the cost of 2 cubic yards, at 2¢ a cubic inch?

5. A man bought a house and lot for 10500 dollars, spent  $\frac{1}{10}$  as much as the first cost in repairing the house and building fences, and the same amount + 500 dollars in building a barn. He sold at an advance of 2500 dollars. What did he sell for?

## LESSON CXXXVII.

1.  $\frac{1}{16}$  of 854528 +  $\frac{1}{23}$  of 75670 +  $\frac{1}{3}$  of 63760 = ?

2.  $\frac{2}{3} + \frac{2}{3} + \frac{2}{3} + \frac{2}{3} + \frac{2}{3} = ?$

3.  $497 \times 896 \div 112 \times 200 \times 8 \div 25 = ?$

4. What is the cost of 2880 sheets of paper, at \$4 a ream?	} Add.
What is the cost of 20 reams of paper, at 1¢ per sheet?	

5. Out of 1578 gallons of wine exported from France,  $\frac{1}{4}$  was lost by breakage and leakage, and the remainder put into demijohns, holding 1 gallon each. They were sold at \$4.75 a gallon. How much was realized from the sale?

## LESSON CXXXVIII.

1. The dividend is 3367421, the quotient 8769 and the remainder 125 ; what is the divisor ?

2.  $\frac{1}{4} + \frac{2}{4} + \frac{3}{4} + \frac{4}{4} + \frac{5}{4} + \frac{6}{4} = ?$

$\frac{2}{3} \times \frac{1}{2} \times \frac{1}{1} \times \frac{1}{10} \times \frac{1}{4} = ?$

3.  $47980 - 5387$  five times  $= ?$

4. Bought 325 yds. of ribbon at 16 cents a foot, and sold it for 70 cents a yard. What was the gain ?

5. A man invested 4800 dollars in horses and cows, buying an equal number of each. He paid 153 dollars apiece for the horses, and 47 dollars apiece for the cows. What number of each did he buy ?

## LESSON CXXXIX.

1.  $\frac{1}{4}$  of  $68346 + (1087 \times 689) - (4725414 \div 4674) = ?$

2.  $4308\frac{19}{70} = ?$

$\frac{1}{2}$  of  $\frac{2}{4}$  of  $\frac{1}{2}$  of  $\frac{1}{4}$  of  $\frac{1}{2}$  of  $\frac{1}{4}$  of  $\frac{1}{4} = ?$

3.  $8460 \times 72 \div 12 \times 96 \div 8 \times 84 \div 12 = ?$

4. A man has 16 acres of land, which he wishes to divide into lots of 4 square rods each, and sell at \$150 per lot. How much will he receive for them ?

5. A man bought a lot of 25 feet frontage for \$4375, and sold it at a gain of \$1575. What did he receive per front foot ?

## LESSON CXL.

1.  $\frac{1}{10}$  of  $709056 + (678 \times 789) + (175280 - 15792) = ?$

2.  $273248 = ?$   $\frac{7}{10} + \frac{1}{10} + \frac{1}{10} =$  what mixed number ?

3.  $93268 - 9876$  four times  $= ?$

4. Find the cost of 15792 oz. of sago, at 48 cts. per lb. }  
Find the cost of 5 tons of hay, at \$1 a cwt. } Add.

5. I bought 96 gallons of oil at 28 cts. per gallon; 84 gallons at 30 cts. per gallon. I kept  $\frac{1}{4}$  of it, and sold the remainder at 10 cts. per quart. How much more did I receive for it than I paid?

## LESSON CXLI.

1.  $\frac{1}{4}$  of 574800 +  $\frac{1}{5}$  of 815025 = ?
2.  $\frac{2}{3}$  of  $\frac{3}{4}$  of  $\frac{1}{2}$  of  $\frac{2}{3}$  of  $\frac{1}{4}$  of  $\frac{1}{2}$  = ?  $\frac{1}{2} + \frac{1}{3} + \frac{1}{4}$  = ?
3.  $\frac{1}{2} \times \frac{2}{3} \times \frac{3}{4} \times \frac{4}{5} \times \frac{5}{6} \times \frac{6}{7} \times \frac{7}{8} \times \frac{8}{9} \times \frac{9}{10} \times \frac{10}{11} \times \frac{11}{12} \times \frac{12}{13} \times \frac{13}{14} \times \frac{14}{15} \times \frac{15}{16} \times \frac{16}{17} \times \frac{17}{18} \times \frac{18}{19} \times \frac{19}{20} \times \frac{20}{21} \times \frac{21}{22} \times \frac{22}{23} \times \frac{23}{24} \times \frac{24}{25} \times \frac{25}{26} \times \frac{26}{27} \times \frac{27}{28} \times \frac{28}{29} \times \frac{29}{30} \times \frac{30}{31} \times \frac{31}{32} \times \frac{32}{33} \times \frac{33}{34} \times \frac{34}{35} \times \frac{35}{36} \times \frac{36}{37} \times \frac{37}{38} \times \frac{38}{39} \times \frac{39}{40} \times \frac{40}{41} \times \frac{41}{42} \times \frac{42}{43} \times \frac{43}{44} \times \frac{44}{45} \times \frac{45}{46} \times \frac{46}{47} \times \frac{47}{48} \times \frac{48}{49} \times \frac{49}{50} \times \frac{50}{51} \times \frac{51}{52} \times \frac{52}{53} \times \frac{53}{54} \times \frac{54}{55} \times \frac{55}{56} \times \frac{56}{57} \times \frac{57}{58} \times \frac{58}{59} \times \frac{59}{60} \times \frac{60}{61} \times \frac{61}{62} \times \frac{62}{63} \times \frac{63}{64} \times \frac{64}{65} \times \frac{65}{66} \times \frac{66}{67} \times \frac{67}{68} \times \frac{68}{69} \times \frac{69}{70} \times \frac{70}{71} \times \frac{71}{72} \times \frac{72}{73} \times \frac{73}{74} \times \frac{74}{75} \times \frac{75}{76} \times \frac{76}{77} \times \frac{77}{78} \times \frac{78}{79} \times \frac{79}{80} \times \frac{80}{81} \times \frac{81}{82} \times \frac{82}{83} \times \frac{83}{84} \times \frac{84}{85} \times \frac{85}{86} \times \frac{86}{87} \times \frac{87}{88} \times \frac{88}{89} \times \frac{89}{90} \times \frac{90}{91} \times \frac{91}{92} \times \frac{92}{93} \times \frac{93}{94} \times \frac{94}{95} \times \frac{95}{96} \times \frac{96}{97} \times \frac{97}{98} \times \frac{98}{99} \times \frac{99}{100} = ?$
4. What will it cost to remove 112 cubic yards of earth, at the rate of \$.90 for 56 cu. ft. ?
5. If 36 men can dig a ditch in 3204 hours, how long will it take 12 men to dig the same?

## LESSON CXLII.

1. Take the quotient of  $86714 \div 382$  as many times as there are units in the product of 901 and 37.
2.  $\frac{1}{2} \times \frac{2}{3} \times \frac{3}{4} \times \frac{4}{5} \times \frac{5}{6} \times \frac{6}{7} \times \frac{7}{8} \times \frac{8}{9} \times \frac{9}{10} \times \frac{10}{11} \times \frac{11}{12} \times \frac{12}{13} \times \frac{13}{14} \times \frac{14}{15} \times \frac{15}{16} \times \frac{16}{17} \times \frac{17}{18} \times \frac{18}{19} \times \frac{19}{20} \times \frac{20}{21} \times \frac{21}{22} \times \frac{22}{23} \times \frac{23}{24} \times \frac{24}{25} \times \frac{25}{26} \times \frac{26}{27} \times \frac{27}{28} \times \frac{28}{29} \times \frac{29}{30} \times \frac{30}{31} \times \frac{31}{32} \times \frac{32}{33} \times \frac{33}{34} \times \frac{34}{35} \times \frac{35}{36} \times \frac{36}{37} \times \frac{37}{38} \times \frac{38}{39} \times \frac{39}{40} \times \frac{40}{41} \times \frac{41}{42} \times \frac{42}{43} \times \frac{43}{44} \times \frac{44}{45} \times \frac{45}{46} \times \frac{46}{47} \times \frac{47}{48} \times \frac{48}{49} \times \frac{49}{50} \times \frac{50}{51} \times \frac{51}{52} \times \frac{52}{53} \times \frac{53}{54} \times \frac{54}{55} \times \frac{55}{56} \times \frac{56}{57} \times \frac{57}{58} \times \frac{58}{59} \times \frac{59}{60} \times \frac{60}{61} \times \frac{61}{62} \times \frac{62}{63} \times \frac{63}{64} \times \frac{64}{65} \times \frac{65}{66} \times \frac{66}{67} \times \frac{67}{68} \times \frac{68}{69} \times \frac{69}{70} \times \frac{70}{71} \times \frac{71}{72} \times \frac{72}{73} \times \frac{73}{74} \times \frac{74}{75} \times \frac{75}{76} \times \frac{76}{77} \times \frac{77}{78} \times \frac{78}{79} \times \frac{79}{80} \times \frac{80}{81} \times \frac{81}{82} \times \frac{82}{83} \times \frac{83}{84} \times \frac{84}{85} \times \frac{85}{86} \times \frac{86}{87} \times \frac{87}{88} \times \frac{88}{89} \times \frac{89}{90} \times \frac{90}{91} \times \frac{91}{92} \times \frac{92}{93} \times \frac{93}{94} \times \frac{94}{95} \times \frac{95}{96} \times \frac{96}{97} \times \frac{97}{98} \times \frac{98}{99} \times \frac{99}{100} = ?$
3.  $\frac{1}{2} + \frac{1}{3} + \frac{1}{4} + \frac{1}{5} + \frac{1}{6} + \frac{1}{7} + \frac{1}{8} + \frac{1}{9} + \frac{1}{10} + \frac{1}{11} + \frac{1}{12} + \frac{1}{13} + \frac{1}{14} + \frac{1}{15} + \frac{1}{16} + \frac{1}{17} + \frac{1}{18} + \frac{1}{19} + \frac{1}{20} + \frac{1}{21} + \frac{1}{22} + \frac{1}{23} + \frac{1}{24} + \frac{1}{25} + \frac{1}{26} + \frac{1}{27} + \frac{1}{28} + \frac{1}{29} + \frac{1}{30} + \frac{1}{31} + \frac{1}{32} + \frac{1}{33} + \frac{1}{34} + \frac{1}{35} + \frac{1}{36} + \frac{1}{37} + \frac{1}{38} + \frac{1}{39} + \frac{1}{40} + \frac{1}{41} + \frac{1}{42} + \frac{1}{43} + \frac{1}{44} + \frac{1}{45} + \frac{1}{46} + \frac{1}{47} + \frac{1}{48} + \frac{1}{49} + \frac{1}{50} + \frac{1}{51} + \frac{1}{52} + \frac{1}{53} + \frac{1}{54} + \frac{1}{55} + \frac{1}{56} + \frac{1}{57} + \frac{1}{58} + \frac{1}{59} + \frac{1}{60} + \frac{1}{61} + \frac{1}{62} + \frac{1}{63} + \frac{1}{64} + \frac{1}{65} + \frac{1}{66} + \frac{1}{67} + \frac{1}{68} + \frac{1}{69} + \frac{1}{70} + \frac{1}{71} + \frac{1}{72} + \frac{1}{73} + \frac{1}{74} + \frac{1}{75} + \frac{1}{76} + \frac{1}{77} + \frac{1}{78} + \frac{1}{79} + \frac{1}{80} + \frac{1}{81} + \frac{1}{82} + \frac{1}{83} + \frac{1}{84} + \frac{1}{85} + \frac{1}{86} + \frac{1}{87} + \frac{1}{88} + \frac{1}{89} + \frac{1}{90} + \frac{1}{91} + \frac{1}{92} + \frac{1}{93} + \frac{1}{94} + \frac{1}{95} + \frac{1}{96} + \frac{1}{97} + \frac{1}{98} + \frac{1}{99} + \frac{1}{100} = ?$
4. Reduce 9 sq. yds. 8 sq. ft. to sq. in. } Add.  
Reduce 126 sq. yds. 128 sq. in. to sq. in. }
5. If 56 gallons of water run into a cistern in an hour, and at the end of 8 hours there are only 176 gallons of water in it, how many gallons must have run out each hour?

## LESSON CXLIII.

1.  $\frac{1}{2}$  of 89370 +  $\frac{1}{3}$  of 63025 -  $\frac{1}{4}$  of 74460 = ?
2.  $\frac{1}{2} + \frac{1}{3} + \frac{1}{4} + \frac{1}{5} + \frac{1}{6} + \frac{1}{7} + \frac{1}{8} + \frac{1}{9} + \frac{1}{10} + \frac{1}{11} + \frac{1}{12} + \frac{1}{13} + \frac{1}{14} + \frac{1}{15} + \frac{1}{16} + \frac{1}{17} + \frac{1}{18} + \frac{1}{19} + \frac{1}{20} + \frac{1}{21} + \frac{1}{22} + \frac{1}{23} + \frac{1}{24} + \frac{1}{25} + \frac{1}{26} + \frac{1}{27} + \frac{1}{28} + \frac{1}{29} + \frac{1}{30} + \frac{1}{31} + \frac{1}{32} + \frac{1}{33} + \frac{1}{34} + \frac{1}{35} + \frac{1}{36} + \frac{1}{37} + \frac{1}{38} + \frac{1}{39} + \frac{1}{40} + \frac{1}{41} + \frac{1}{42} + \frac{1}{43} + \frac{1}{44} + \frac{1}{45} + \frac{1}{46} + \frac{1}{47} + \frac{1}{48} + \frac{1}{49} + \frac{1}{50} + \frac{1}{51} + \frac{1}{52} + \frac{1}{53} + \frac{1}{54} + \frac{1}{55} + \frac{1}{56} + \frac{1}{57} + \frac{1}{58} + \frac{1}{59} + \frac{1}{60} + \frac{1}{61} + \frac{1}{62} + \frac{1}{63} + \frac{1}{64} + \frac{1}{65} + \frac{1}{66} + \frac{1}{67} + \frac{1}{68} + \frac{1}{69} + \frac{1}{70} + \frac{1}{71} + \frac{1}{72} + \frac{1}{73} + \frac{1}{74} + \frac{1}{75} + \frac{1}{76} + \frac{1}{77} + \frac{1}{78} + \frac{1}{79} + \frac{1}{80} + \frac{1}{81} + \frac{1}{82} + \frac{1}{83} + \frac{1}{84} + \frac{1}{85} + \frac{1}{86} + \frac{1}{87} + \frac{1}{88} + \frac{1}{89} + \frac{1}{90} + \frac{1}{91} + \frac{1}{92} + \frac{1}{93} + \frac{1}{94} + \frac{1}{95} + \frac{1}{96} + \frac{1}{97} + \frac{1}{98} + \frac{1}{99} + \frac{1}{100} = ?$
3. Divide 48780 by 560.

4. Cost of 65 lbs. 10 oz. of butter, at 2 cts. an oz. } Add.  
 Cost of 3360 oz. of butter, at 35 cts. a lb. }
5. A man had 360 bushels of apples, which he sold at the rate of 40 cts. a peck. He carried them to market in loads of 4 bushels 2 pks. each. How many loads had he, and how much did he realize from the sale of them?

## LESSON CXLIV.

1.  $(475 \times 835) - (246 \times 575) - 4837 - 1060 = ?$
2. What is the sum of  $\frac{1}{2}$ ,  $\frac{1}{3}$ ,  $\frac{1}{4}$ ,  $\frac{1}{5}$ , and  $\frac{1}{6}$ ?
3.  $\frac{1}{2} \times \frac{1}{3} \times \frac{1}{4} \times \frac{1}{5} \times \frac{1}{6} \times \frac{1}{7} \times \frac{1}{8} = ?$   $436\frac{1}{2} = ?$
4. If I buy 146 gallons of cider at 30 cts. a gallon, and sell it at 10 cts. a quart, what do I gain?
5. A man earns 20 cts. an hour for 56 days, working 10 hours a day. He uses 100 dollars for necessary expenses, and with the remainder buys books at 75 cts. apiece. How many can he buy?

## LESSON CXLV.

1.  $(7894 \times 97) + (6789 \times 9) - (85509 - 4998) = ?$
2.  $\frac{1}{2}$  of  $\frac{1}{3}$  of  $\frac{1}{4}$  of  $\frac{1}{5}$  of  $\frac{1}{6}$  of  $\frac{1}{7} = ?$   $549\frac{1}{2} = ?$
3.  $784 \times 81 \div 9 \times 72 \div 6 \times 256 \div 16 = ?$
4. Find the cost of 11 lb. 4 oz. of honey, at 2 cts. per oz. } Add.  
 Find the cost of 60 quires of paper, at \$2.60 per ream. }
5. A man bought 680 yards of broadcloth at \$4.60 per yard, 382 yards at \$5.90 per yard; he found  $\frac{1}{4}$  of it was damaged, and he sold the remainder for \$6 per yard. Did he gain or lose, and how much?

## LESSON CXLVI.

1.  $(1404 \times 98) + (6642 \times 96) - (697680 \div 1615) = ?$
2.  $\frac{1}{2} - \frac{1}{3} = ?$   $\frac{4}{8}$  of  $\frac{2}{3}$  of  $\frac{4}{7}$  of  $\frac{3}{5}$  of  $\frac{9}{7} = ?$
3.  $843020 - 95648$  four times  $= ?$
4. What is the cost of 96 tons of coal, if 174 tons cost \$2088?
5. A man left his wife \$5860, his son  $\frac{1}{2}$  as much as his wife, and to 5 nieces as much as to his wife and son. What was the share of each niece?

## LESSON CXLVII.

1.  $(\frac{5}{8}$  of  $951372) - (\frac{1}{3}$  of  $37341) - (36905492 \div 914) = ?$
2.  $\frac{1}{2} - \frac{1}{3} = ?$   $\frac{2}{5}$  of  $\frac{1}{4}$  of  $\frac{1}{6}$  of  $\frac{2}{7}$  of  $\frac{3}{4}$  of  $\frac{1}{2} = ?$
3.  $\frac{453272}{846} = ?$
4. Find the cost of 16 cubic yards, at \$3.84 a cu. ft.
5. If 16 gallons of wine are worth \$32, what is the value of a hogshead?

## LESSON CXLVIII.

1.  $640700 - 14738$  four times  $= ?$
2.  $\frac{4}{5} - \frac{1}{3} = ?$   $\frac{1}{2} \times \frac{2}{3} \times \frac{1}{4} \times \frac{2}{4} \times \frac{1}{3} \times \frac{4}{5} = ?$
3.  $496 \times 625 \div 25 \div 5 \times 480 \div 240 = ?$
4. Cost of 2400 qts. of onions, at 17¢ per pk. ?  
 Cost of 2400 qts. of milk, at 35¢ per gal. ?  
 Cost of 2400 qts. of syrup, at 18¢ per pt. ? } Add.
5. A man owes \$25000. To discharge his indebtedness, he gives a house and lot worth \$4700, 12 lots worth \$500 each, and the remainder he agrees to pay in 5 annual instalments. What will be the amount of each payment?

## LESSON CXLIX.

1.  $\frac{3}{15}$  of 99674 + ( $\frac{7}{25}$  of 147275) - 3 times  $(84 \times 56) = ?$
2.  $\frac{7}{8} - \frac{1}{2} = ?$   $\frac{4}{15} \times \frac{2}{100} \times \frac{5}{4} \times \frac{7}{5} \times \frac{1}{6} \times \frac{1}{3} = ?$
3.  $\frac{478382}{714} = ?$   $5937\frac{23}{147} = ?$
4. Cost of 350 bushels of berries, at 15¢ per qt. ? }  
Cost of 14400 qts. of berries, at \$3.75 per bu. ? } Add.
5. A had 25000 dollars, B had  $\frac{2}{3}$  as much, and C as much as A and B. How much had they all ?

## LESSON CL.

1.  $(478 \times 89) + (496 \times 38) + (462 \times 98) = ?$
2.  $\frac{427}{447} - \frac{322}{447} = ?$   
What is the sum of  $\frac{1}{2}$ ,  $\frac{4}{5}$ ,  $\frac{7}{8}$ ,  $\frac{5}{6}$  and  $\frac{1}{10}$  ?
3.  $479400 \div 9400 = ?$
4. Bought 25 yards of cloth, at 5 cts. an in. = ? }  
Bought 7200 in. of cloth, at \$1.75 per yard = ? } Add.
5. A man bought 100 feet of land at 80 dollars a foot, built a house on it that cost  $\frac{1}{2}$  as much as the land, and a barn that cost  $\frac{1}{10}$  as much as both. What was the entire cost ?

## LESSON CLI.

1.  $\frac{3}{17}$  of 329936 +  $(846 \times 789) - 93248 \div 376 = ?$
2.  $\frac{1}{2} - \frac{1}{3} = ?$   $\frac{4}{5}$  of  $\frac{3}{8}$  of  $\frac{2}{5}$  of  $\frac{1}{9}$  of  $\frac{3}{4} = ?$
3.  $9980 \times 72 \div 12 \times 96 \div 12 = ?$
4. What is the cost of 80 acres of land, if 12 acres cost \$484.80 ?
5. Bought 96 bushels of wheat at 91 cts. per bushel; 126 bushels at 96 cts. a bushel; I sold  $\frac{1}{3}$  of it at \$1.10 per bushel, and the remainder at \$1.15 a bushel. What was my gain ?

## LESSON CLII.

1.  $\frac{1}{18}$  of  $295578 + (6489 \times 78) = ?$
2.  $\frac{11}{18} - \frac{5}{18} = ?$   $\frac{1}{18}$  of  $\frac{7}{12}$  of  $\frac{2}{3}$  of  $\frac{4}{5}$  of  $\frac{1}{8}$  of  $\frac{3}{4} = ?$
3.  $843286 - 84968$  three times  $= ?$
4. What is the cost of 30 sq. yds. of carpeting, if 96 sq. yds. cost \$288?
5. A youth having a fortune of \$25000, spent  $\frac{1}{3}$  of it the first year, the second year twice as much as the first, and the third year  $\frac{1}{2}$  of what was then left. How much had he at the commencement of the fourth year?

## LESSON CLIII.

1.  $\frac{7}{24}$  of  $149592 + (6849 \times 76) = ?$
2.  $\frac{21}{30} - \frac{11}{30} = ?$   $\frac{1}{8}$  of  $\frac{7}{12}$  of  $\frac{1}{3}$  of  $\frac{1}{2}$  of  $\frac{7}{8} = ?$
3.  $\frac{201764}{14964} = ?$
4. What is the cost of 189 cu. ft. of stone, if 16 cu. yds. cost \$112?
5. 16 boys pile some wood in 1440 min. How many hours would it take 8 boys to do the same work?

## LESSON CLIV.

1. Reduce to a mixed number the sum of the following fractions:  $\frac{88}{120}$ ,  $\frac{14}{20}$ ,  $\frac{26}{20}$ ,  $\frac{11}{20}$ ,  $\frac{45}{20}$  and  $\frac{13}{20}$ .
2.  $\frac{43}{12} - \frac{43}{12} = ?$   $\frac{45}{12} \times \frac{3}{4} \times \frac{7}{11} \times \frac{3}{12} = ?$
3.  $8657 \times 125 \div 25 = ?$
4. What is the cost of 200 lbs. of cinnamon, at 5 cents an ounce?
5. What is the cost of 600 bushels of cranberries, at 12¢ a qt.



## LESSON CLV.

1.  $\frac{3}{8}$  of 75278 +  $\frac{7}{8}$  of 87408 +  $\frac{9}{100}$  of 20000 = ?
2. What is the sum of  $\frac{2}{3}$ ,  $\frac{3}{4}$ ,  $\frac{1}{2}$ ,  $\frac{4}{5}$  and  $\frac{1}{11}$ ?
3. Divide  $\frac{4}{5}$  of 455000 by 500, and take the quotient as many times as there are units in the product of  $85 \times 96$ .
4. Cost of 6400 qts. of beans, at \$3.50 per bu.?  
Cost of 12800 qts. of vinegar, at 35 cts. per gal.?
5. A man buys 48 horses for \$7800. For  $\frac{1}{2}$  he pays \$175 each. What does he pay apiece for the remainder?

## LESSON CLVI.

1. From 76390 subtract 7408 five times.
2. Find the sum of  $\frac{4}{5}$ ,  $\frac{3}{4}$ ,  $\frac{1}{2}$  and  $\frac{7}{11}$ .  
 $\frac{144}{100} \times \frac{9}{10} \times \frac{7}{10} \times \frac{12}{100} \times \frac{18}{100} = ?$
3.  $456 \times 96 \times 10 \div 480 \div 4 \times 144 - 15 = ?$
4. What cost 14 yds. 1 ft. of satin, at 10¢ an inch?  
What cost 6400 gills, at \$1.25 per gal.?
5. How many bags of a capacity of 2 bushels 1 peck will be required to hold 10800 bushels of nuts?

## LESSON CLVII.

1.  $\frac{7}{8}$  of 441756 +  $\frac{6}{5}$  of 675150 +  $\frac{3}{8}$  of 32400 = ?
2.  $\frac{1}{7} - \frac{1}{11} = ?$   $\frac{3}{8}$  of  $\frac{3}{4}$  of  $\frac{6}{8}$  of  $\frac{1}{14}$  of  $\frac{9}{11}$  of  $\frac{1}{11} = ?$
3.  $\frac{15468}{9409} = ?$   $640\frac{11}{109} = ?$
4. What is the cost of 761 lb. of ginger, at 3 cts. an ounce?  
What is the cost of 289 gal. of milk, at 3 cts. a pint?
5. A man buys 240 calves, at \$6.40 each. He sells  $\frac{1}{2}$  of them at \$8.25 each,  $\frac{1}{3}$  of them at \$9.30 each, and the remainder at cost. How much does he gain?

## LESSON CLVIII.

1.  $(8798 \times 968) - (7899 \times 89) = ?$
2.  $22\frac{8272}{49} = ?$
3.  $\frac{1}{8} - \frac{1}{16} = ?$   $\frac{3}{8}$  of  $\frac{1}{11}$  of  $\frac{4}{5}$  of  $\frac{3}{4}$  of  $\frac{2}{3}$  of  $\frac{1}{2}$  of  $\frac{1}{3} = ?$
4. What is the cost of 248 yds. of ribbon, at 2¢ an inch ?  
 What is the cost of 4040 bu., at 3 cents a quart ?
5. A has \$340.40, B has ten times as much as A, C has  $\frac{1}{2}$  as much as A and B, D has as much as all the others. How much has D ?

Add.

## LESSON CLIX.

1.  $\frac{1}{2}$  of 79233 +  $\frac{3}{5}$  of 406720 +  $(7894 \times 96) = ?$
2.  $\frac{11\frac{3}{4}}{41\frac{3}{8}} = ?$   $\frac{1}{2}$  of  $\frac{2}{3}$  of  $\frac{1}{11}$  of  $\frac{3}{4}$  of  $\frac{1}{18}$  of  $\frac{2}{5}$  of  $\frac{1}{4} = ?$
3.  $26\frac{4302}{84} = ?$
4. What is the cost of 128000 pt. of corn, at 75 cents per bushel ?  
 What is the cost of 128000 pt. of molasses, at 75 cents per gallon ?
5. What cost 163 cords of wood, if one cubic foot cost 9 cents ?

Add.

## LESSON CLX.

1.  $(654 \times 87) + (943 \times 849) + (564 \times 287) = ?$
2. Find the quotient and remainder of  $654839 \div 4736$ .
3. Reduce to a mixed number the sum of the fractions  $\frac{88}{100}, \frac{75}{100}, \frac{22}{100}, \frac{47}{100}, \frac{85}{100}$ .
4. A bought 7650 bushels of wheat at 60 cts. a bushel, 5840 bushels at 75 cents a bushel. He sold  $\frac{1}{2}$  the entire

amount at 80 cents a bushel, and the remainder, being damaged, at 50¢ a bu. Did he gain or lose, and how much?

5. A man rides a bicycle, going at the rate of 40 rods a minute. How many minutes will he be in going 3 miles and 120 rods?

# LESSON CLXI.

1.  $\frac{1}{11}$  of 158466 +  $\frac{1}{3}$  of 433557 +  $(4897 \times 65) = ?$

2.  $\frac{1}{11} - \frac{1}{11} = ?$   $\frac{1}{15} \times \frac{1}{11} \times \frac{1}{11} \times \frac{1}{11} \times \frac{1}{11} \times \frac{1}{11} \times \frac{1}{11} = ?$

3.  $4785 \times 397 - (9843 \times 48) = ?$

4. What is the cost of 64000 lbs. of hay, at \$12 per ton? }  
 What is the cost of 64000 lbs. of sugar, at \$240 per ton? Add.

5. A owns  $\frac{1}{4}$  of a mill, valued at 125000 dollars; B owns 3 times as much as A, and the remainder is owned in equal amounts by C and D. What is the amount of each one's share?

# LESSON CLXII.

1. Subtract 15368 five times from 127368, and multiply the remainder by 428.

2. Find the sum of  $\frac{1}{11}$ ,  $\frac{1}{11}$ ,  $\frac{1}{15}$ ,  $\frac{1}{15}$ ,  $\frac{1}{11}$  and  $\frac{1}{15}$ .  
 $436\frac{1}{11} = ?$

3.  $\frac{1}{11} \times \frac{1}{11} \times \frac{1}{11} \times \frac{1}{11} \times \frac{1}{15} \times \frac{1}{15} \times \frac{1}{15} \times \frac{1}{15} = ?$

4. What is the cost of 19200 pts. of clover seed, at \$7 per bushel? }  
 What is the cost of 19200 pts. of syrup, at \$1.75 per gallon? Add.

5. A part of an estate, valued at 640000 dollars, was divided among 3 sons as follows: to the eldest son,  $\frac{1}{3}$  of the estate + 3000 dollars; to the second son,  $\frac{1}{3}$  of it — 6000 dollars; to the youngest son,  $\frac{1}{3}$  + 4000 dollars. What was each one's share?

## LESSON CLXIII.

1. The divisor is 8769, the quotient 645 and the remainder 546. What is the dividend?

2.  $\frac{3}{8} - \frac{1}{8} = ?$   $\frac{5}{8}$  of  $\frac{3}{8}$  of  $\frac{3}{8}$  of  $\frac{1}{8}$  of  $\frac{5}{8}$  of  $\frac{1}{8} = ?$

3. Divide the product of 1496 and 84 by the quotient of 89760 divided by 120.

4. What is the cost of 5024 qts. of strawberries, at \$3.75 per bu. ?  
Cost of 2 hogsheads of molasses, at \$.80 per gallon ?

Add.

5. A man bought 160 acres, at \$80 per acre. He paid down \$10000, and the remainder in 4 equal payments. What was the amount of each payment?

## LESSON CLXIV.

1.  $\frac{3}{8}$  of 442485 +  $\frac{7}{8}$  of 651528 + (897 × 78) = ?

2.  $643\frac{1}{8} = ?$   $240\frac{3}{8} = ?$

3.  $\frac{1}{8} - \frac{1}{8} = ?$   $\frac{1}{4}$  of  $\frac{1}{4}$  of  $\frac{1}{8}$  of  $2\frac{3}{8}$  of  $\frac{1}{8}$  of  $\frac{1}{8} = ?$

4. What is the cost of 75 yards of ribbon, at 1¢ an in. ?

What is the cost of 60 bushels 3 pecks of beans, at 7 cts. per qt. ?

Add.

5. A man buys 460 calves, at \$10.25 each. He sells  $\frac{1}{2}$  of them at \$12.10 each,  $\frac{1}{4}$  of them at \$11 each, and the remainder at cost. What did he gain?

## LESSON CLXV.

1.  $\frac{1}{11}$  of 327030 +  $\frac{1}{11}$  of 50791 + (6789  $\times$  98) = ?
2.  $\frac{1000}{1000} - \frac{1000}{1000} = ?$   $\frac{1}{4}$  of  $\frac{3}{4}$  of  $\frac{2}{3}$  of  $\frac{1}{2}$  of  $\frac{1}{2}$  of  $\frac{1}{2} = ?$
3. 864098 - 98765 three times = ?
4. What is the cost of 84 lbs. 7 oz. of cinnamon, at 9 cts. an oz. ?
- What is the cost of 160 gal. 2 qts. of vinegar, at 2 cts. per pt. ?
5. Bought wood at \$7.75 per cord, and sold at \$8.96 per cord. How much did I make on 7640 cords ?

} Add.

## LESSON CLXVI.

1. (8643  $\times$  786) + (9876  $\times$  678) = ?
2. 6849  $\frac{1}{8} = ?$   $2\frac{3}{4}\frac{1}{8} = ?$
3.  $\frac{1}{10}$  of 74081 +  $\frac{1}{10}$  of 90045 = ?
4.  $\frac{3}{4}$  of  $\frac{1}{2}$  of  $\frac{1}{4}$  of  $\frac{1}{2}$  of  $\frac{3}{4} = ?$   $\frac{100}{100} - \frac{100}{100} = ?$
5. A dealer bought 468 bushels of nuts, at \$2.25 per bushel; he sold  $\frac{1}{2}$  of them at 60 cts. a peck, and the remainder at 15 cts. a quart. What was his gain ?

## LESSON CLXVII.

1.  $\frac{1}{8}$  of 159120 - (755521  $\div$  89) = ?
2. 7854  $\frac{1}{4} = ?$   $2\frac{3}{4}\frac{1}{4} = ?$
3. 98473 - 8401 six times = ?
4. What is the cost of 9872 qts. of potatoes, at 20 cts. a pk. ?
- What is the cost of 987 gallons of syrup, at 15¢ a qt. ?
5. A has \$8000; B has 10 times as much; C has  $\frac{1}{2}$  as much as A and B; D has twice as much as all the others. How much has D ?

} Add.

## LESSON CLXVIII.

1.  $\frac{4}{5}$  of 630050 +  $\frac{7}{9}$  of 530157 = ?
2.  $\frac{1}{2}$  of  $\frac{1}{3}$  of  $\frac{1}{4}$  of  $\frac{1}{5}$  of  $\frac{1}{6}$  of  $\frac{1}{7}$  = ?  $849\frac{2}{3} = ?$
3. 6879432 — 987656 three times = ?
4. A cellar is to be dug by 3 men, and they are to share the money equally. 108 cu. yds. are to be removed, at 3¢ a cu. ft. What is each man's share?
5. What will be the cost of 144 tons of hay, if 160 tons cost \$1920?

## LESSON CLXIX.

1.  $\frac{1}{2}$  of 954648 +  $\frac{3}{4}$  of 101598 = ?
  2. Reduce to a mixed number the sum of  $\frac{1}{2}$ ,  $\frac{1}{3}$ ,  $\frac{1}{4}$ ,  $\frac{1}{5}$ , and  $\frac{1}{6}$ .
  3.  $\frac{1}{2} \times \frac{1}{3} \times \frac{1}{4} \times \frac{1}{5} \times \frac{1}{6} \times \frac{1}{7} \times \frac{1}{8} \times \frac{1}{9} = ?$   $4936\frac{1}{2} = ?$
  4. What cost 96000 sheets of paper, at \$3.50 per ream ?  
 What cost 42 reams of paper, at 15 cents per quire ?
- } Add.
5. A man bought a span of horses for 750 dollars, a carriage for twice as much, a harness for  $\frac{1}{10}$  as much as the horses, and two houses, each costing as much as the sum of the horses, carriage and harness. How much did he pay for all?

## LESSON CLXX.

1. Divide the product of 7500 and 768 by 12 times 25.
  2. Find the sum of  $\frac{1}{2}$ ,  $\frac{1}{3}$ ,  $\frac{1}{4}$ ,  $\frac{1}{5}$ ,  $\frac{1}{6}$ .  $49\frac{1}{2} = ?$
  3.  $\frac{1}{2}$  of  $\frac{1}{3}$  of  $\frac{1}{4}$  of  $\frac{1}{5}$  of  $\frac{1}{6}$  of  $\frac{1}{7}$  = ?
  4. What is the cost of paving 870 square yds., at \$1.75 per square ft. ?  
 What is the cost of painting 162 square ft., at 75 cts. a square yd. ?
- } Add.

5. A boy bought 23 bags of peanuts, each containing 2 bushels 1 peck, at 56 cts. a peck, and sold them at 12 cts. a quart. What was his gain?

## LESSON CLXXI.

1. The quotient is 487, the divisor 596 and the remainder is 368; what is the dividend?

2. Reduce to a mixed number the sum of the fractions  $\frac{85}{140}, \frac{250}{140}, \frac{1287}{140}, \frac{2380}{140}$ .

3.  $\frac{1}{11}$  of  $\frac{1}{2}$  of  $\frac{81}{144}$  of  $\frac{3}{8}$  of  $\frac{144}{1}$  of  $\frac{3}{8}$  of  $\frac{1}{2}$  of  $\frac{1}{11} = ?$

4. What will it cost to remove 46656000 cubic inches of sand, at 50 cts. a cu. yd.?

How many cords of wood in 34560 cubic feet?

5. How many barrels of flour, each containing 196 lbs., worth 5 cts. a lb., can be bought for 49 great gross of eggs, at 10 cts. per dozen?

## LESSON CLXXII.

1.  $\frac{1}{11}$  of 276432 +  $\frac{1}{11}$  of 873264 = ?

2.  $505\frac{8}{9} = ?$   $548881 = ?$

3. 46087—5197 four times = ?

4. What is the cost of 872 lbs. of citron, at 3 cts. an oz.?  
 What is the cost of 760 yds. of ribbon, at 2 cts. an inch? } Add.

5. I bought 648 bushels of rye at 80 cts. a bushel. I sold  $\frac{1}{4}$  of it at 85 cts. a bushel,  $\frac{1}{2}$  of it at 90 cts. a bushel, and the remainder at \$1 a bushel. What is my gain?





## PROMISCUOUS EXAMPLES.

1.

CHICAGO, Aug. 17, 1882.

Mr. JOHN FRENCH,

*Bought of* MARSHALL, FIELD & Co.

3 pieces Velvet, . . . . @ \$100.75.

2 bales Cotton, . . . . @ 37.45.

2 bales Print, . . . . @ 10.75.

2. What will be the cost of 25 yards of cloth, if 6 inches cost 6 cts. ?

3. At 8 cts. a pint, how many gallons of molasses can be bought for 64 gross of eggs, at 2 cts. each ?

4. The first watches were made in Nuremberg, in 1477. How many years have they been in use ?

5. Two men are 360 miles apart, and are traveling toward each other; one travels 5 miles an hour, and the other 7 miles an hour. In how many hours will they meet, and how many miles will each have traveled ?

6. 2 men start from the same point, and go in opposite directions, one traveling at the rate of seven miles an hour, and the other at the rate of 9 miles an hour. At the expiration of 128 hours, how many miles will each have traveled ?

7. The subtrahend is 110875, the remainder 968074. What is the minuend ?

8. I bought 420 bushels of corn at 60 cts. a bushel, 180 bushels at 65 cts. a bushel;  $\frac{1}{4}$  of it was stolen, and I sold the remainder at 80 cts. a bushel. How much did I gain or lose ?

9. 2 men start from the same point, and travel in the same direction, one going at the rate of 6 miles an hour, and the other at the rate of 8 miles an hour. How many hours have they been traveling, when they are 48 miles apart ?

10. A man sold 24 tons of hay, at \$9 a ton, 24 cords of wood at \$5 a cord, 180 bushels of potatoes, at 12 cents a peck. He took in payment 2 barrels of flour at 9 dollars a barrel, 1 hundred-weight of sugar at 10 cents a pound, a keg of syrup for \$6, and the balance in cash. How much cash did he receive?

11.

St. Louis, May 15, 1879.

Messrs. SHARP & Co.

To WELLS, STEELE & Co., Dr.

To 16 yds. Print, . . . . . @ \$ .12.

“ 23 yds. Ribbon, . . . . . @ .75.

“ 5 yds. Silk, . . . . . @ 4.75.

“ 7 yds. Velvet, . . . . . @ 7.50.

12. In 1862, Kansas sent 96890 bushels of corn to market; in 1882, 20911850 bushels. What was the average increase of bushels each year?

13. The minuend is 487520, the subtrahend 79026; what is the remainder?

14. A man being asked his age, replied: “If you add 10 to it, divide by 5, multiply by 12, divide by 2, and add 16, you will have 76. What was his age?”

15. How many rods of fence would be required to enclose a square mile?

16. A farmer sold 4 great gross of eggs, at 20 cents a dozen, and took in payment 4 hundred-weight of sugar at 11 cents a pound, 12 pounds of tea at 5 cents an ounce, 2 barrels of flour at 9 dollars a barrel, and the remainder in cloth at 20 cts. a yard. How many yards of cloth did he buy?

17. I bought 116 yards 2 feet of flannel at 4 cents an inch, 120 yards 3 inches at 5 cents an inch, and sold all at 6 cents an inch. What was my gain?

18. A man sold some real estate for \$14004, and with the money bought a house and lot for 7500 dollars, 484 sheep @ 6 dollars each, and 36 horses? What was the average price of the horses?

19. I bought 50 feet of land at 50 dollars a foot, and upon it built two houses each costing \$5068. For how much must I sell the property to gain 1685 dollars on the investment?

20. In the month of July, John earned 95 cents a day. Allowing 4 Sabbaths to a month, how much more will he earn in August, at \$1.10 a day, than he earned in July?

21. I bought a horse and carriage for 650 dollars, a house and lot for 12 times as much as I paid for the horse and carriage, and some real estate, for which I paid 9 times as much as the amount already invested. What amount did I invest?

22. If a man's salary is 100 dollars a month, and his expenses 65 dollars a month, how long will it take him to buy a farm of 360 acres, at 56 dollars an acre?

23.

St. Louis, Aug. 20, 1882.

Mr. J. B. STOWELL,

*Bought of D. RICHARDS & Co*

16 Hats, . . . . . @ \$3.25.

24 Handkerchiefs, . . . . . @ .50.

36 pair Gloves, . . . . . @ 1.30.

50 Neckties, . . . . . @ .75.

24. Minuend is 8490005, remainder is 257326. What is the subtrahend?

25. The first chimney was introduced into Rome, from Padua, in 1320. How many years have they been in use?

26. A man deposited 36480 dollars in bank, and drew out 245 dollars a month as long as the deposit was large enough. What then remained?

27. How many bags of a capacity of 9 quarts, will be required to hold 180 bushels of nuts?

28. Out of 2 hogsheads of molasses each containing 63 gallons,  $\frac{1}{4}$  leaked out, and the remainder was sold at the rate of 10 cents a pint. How much was realized from the sale?

29. A had 45630 dollars, B had  $\frac{1}{3}$  as much, and C had  $\frac{1}{4}$  as much as B + 5000 dollars, and D had as much as A and B — 36485 dollars. How much had they all?

30. What will it cost to carpet a room requiring 56 yards at 75 cents a foot?

31. How many more revolutions will a wheel, 15 feet in circumference, make in going 4800 yards, than a wheel that is 16 feet in circumference?

32. I bought 72 horses at \$125 each, 44 horses at \$150 each, and 20 horses at \$100 each. I gave in payment 200 acres of land. What was the land worth an acre?

33.

CLINTON, Iowa, Sept. 8, 1882.

J. MANNING,

*Bought of D. L. PARMER,*

3 boxes Raisins,	. . . . . @ \$4.28.
6 boxes Baking Powder,	. . . . . @ .38.
12 cans Fruit,	. . . . . @ .40.
24 Brooms,	. . . . . @ .36.
12 bbl. Flour,	. . . . . @ 8.25.

34. The bicentennial celebration of the landing of William Penn, occurred in October, 1882. In what year did he land?

35. The multiplicand is 709654, the multiplier 3984. What is the product?

36. A man starts to travel a distance of 480 miles. How many hours will it take him to arrive at his destination, if he travels 32 rods in a minute, and rests during his journey 36 hours?

37.  $\frac{2}{3}$  of a tree was broken off by the wind, and 17 feet of it were left standing. What was the height of the tree?

38. I bought 2 hogsheads of vinegar at 35 cents per gallon;  $\frac{1}{4}$  of it leaked out, and I sold  $\frac{1}{4}$  of the remainder at 10 cents a quart, and the final remainder at 15 cents per quart. Did I gain or lose, and how much?

39. A man exchanged 1800 bushels of oats, at 45 cents

a peck, for wheat at 90 cents per bushel. How many bushels of wheat did he receive?

40. A grocer bought 75 firkins of butter, each containing 56 pounds, at 32 cts. per pound, and sold it all at 38 cents per pound. What was his gain?

41. A boy bought 5 bushels of peanuts at 60 cts. a peck, 4 bushels at 65 cts. a peck, and sold them all at 5 cts. a pint. What was his gain?

42. A boy sold 80 newspapers, @ 5 cts. each, every day, for 3 years. His profits were  $\frac{1}{4}$  of what he received. What were his profits?

43. How many more minutes in March than in February of a leap year?

44.

BUFFALO, May 2, 1881.

Messrs. SMITH & Co.

To HARMS, JOHNSON & Co., Dr.

To 7 lbs. Tea, . . . . . @ \$1.25.

" 10 lbs. Sugar, . . . . . @ .12.

" 25 lbs. Flour, . . . . . @ .05.

" 12 lbs. Soap, . . . . . @ .07.

" 2 gall. Molasses, . . . . . @ 1.10.

45. The first steamer plied the Hudson river in 1807, and the first steam-engine on this continent was brought from England in 1753. How many years after it was brought over, before it was put in practical use?

46. A man bought 640 sheep at \$6.25 each. He sold  $\frac{1}{4}$  of them at 7 dollars each,  $\frac{1}{4}$  of the remainder at \$7.25 each, and what he then had left, at cost. What did he gain?

47. A has 47800 dollars; B has 3 times as many, and C has  $\frac{1}{2}$  as many as A and B. If each should lose 10578 dollars, how much would they all have left?

48. A man bought 840 bushels of oats at 30 cts. a bushel, 640 bushels at 35 cents a bushel. He sold  $\frac{1}{4}$  of them at 40 cts. a bushel,  $\frac{1}{4}$  of the remainder at 42 cts. a bushel, and what he then had left, at 45 cts. per bu. What was his gain?

49. A boy had 60 cts. His father doubled it, his mother trebled it, and his brother gave him 1 dollar. How many cents did he then have?

50. I bought 34 cows at 55 dollars each, and sold them so as to gain 102 dollars. How much did I receive for each cow?

51. Mr. Cole owned 8 acres of land, which he divided into lots, each containing 10 square rods, and sold them for 2500 dollars apiece. What amount did he receive for them all?

52. A clerk receives an annual salary of 1500 dollars. If he spends 25 dollars a month for board, 15 dollars for clothing, and 10 dollars for incidental expenses, how much can he save in 5 years?

53. 34944 dollars is 13 times as much as I paid for 48 cows. How much did they cost apiece?

54. A, B, and C enter into an agreement to purchase wheat. A puts in 2800 dollars, B  $\frac{1}{2}$  as much as A + 600 dollars, C  $\frac{1}{3}$  as much as both — 100 dollars. How much wheat can they purchase, at 70 cts. a bushel?

55. How many weeks would 4 barrels of flour, each containing 196 pounds, last a family of 4 persons, if each one consumed 2 pounds daily?

56.

CHICAGO, Aug. 17, 1880.

Mr. RICHARD HEATH,

To CHASE & SONS, Dr.

To 1 Dictionary, . . . . .	@ \$9.50.
" 2 reams Paper, . . . . .	@ 2.40.
" 4 boxes Pens, . . . . .	@ .60.
" 9 boxes Slate Pencils, . . . .	@ .35.
" 6 Geographies, . . . . .	@ .95.

57. The landing at Plymouth Rock was in 1620. How many months elapsed from that date to 1882?

58. The product is 266304, the multiplier 584; give multiplicand.

59. A company of soldiers numbering 400 men, each

consumes 12 ounces of meat daily. In how many days will they consume 6 tons of meat?

60. A grocer buys potatoes at 60 cts. a bushel, and sells them at 75 cts. a bushel. With the gain on 340 bushels, he purchases corn, at 15 cts. per peck. How many bushels can he buy?

61. I purchased 890 barrels of flour for 8010 dollars. How much must I sell it for per barrel to gain 1780 dollars?

62. 40000 acres of land will yield 93000 bales of hops, of 280 pounds each. How many pounds is that per acre?

63. The Amazon river, which is 4000 miles long, drains 2000000 square miles. Taking into consideration both sides of the river, what is the average width of the country drained?

64. In 1640 the first printing press was used. How many days, to 1882, have they been used, considering the first date a leap year?

65. A cistern containing 180 gallons is emptied by 2 men, each carrying two pails, each pail containing 12 qts. If it requires 3 minutes to empty the pails once, how many minutes will be required to empty the cistern?

66. A man bought 158 gallons of molasses at 75 cts. per gallon, 148 gallons at 80 cts. per gallon;  $\frac{1}{4}$  of it leaked out, and he sold the remainder at 28 cts. a quart. Did he gain or lose, and how much?

67. A man having 2640 dollars, spends  $\frac{1}{4}$  of it in groceries, and the remainder in oats, at 60 cts. a bushel. How many bushels did he buy?

68.

ST. PAUL, Aug. 20, 1882.

Mr. M. D. BROWN,

*Bought of M. D. WELLS & Co.*

24 pr. Men's Boots,	. . . . .	@ \$3.84.
12 pr. Child's Shoes,	. . . . .	@ 1.50.
36 pr. Boys' Boots,	. . . . .	@ 2.25.
24 pr. Ladies' Slippers,	. . . . .	@ 1.25.

69. The first coaches were used in England in 1569, and the first horse-railroad in 1827. How many days were coaches in use before horse-railroads ?

70. Dividend is 493680, divisor 240; what is the quotient ?

71. Bought 428 bushels 3 pecks of corn at 12 cts. a peck, 560 bushels 2 pecks at 10 cts. a peck; sold all at 15 cts. a peck. What was the gain ?

72. Kerosene was first used for lighting purposes in 1826, and gas in 1702. How many evenings was gas used for illuminating before kerosene ?

73. A man has 10 gallons 1 pint of wine, which he wishes to put into bottles of the capacity of 2 gills. How many bottles will be required ?

74. How many yards of carpeting, 1 yard wide, will be required to cover 315 square feet ?

75. A father willed an estate, valued at 60000 dollars, to 3 sons and 2 daughters as follows: to the eldest son  $\frac{1}{3}$  of the estate, to the second son  $\frac{1}{4}$  of it, to the youngest son  $\frac{1}{5}$  of it, and the remainder to be divided equally between the two daughters. What was each daughter's share ?

76. The earth's circumference is 25000 miles. As it turns around every 24 hours, how many miles of space will it have passed through in its daily revolutions in a year ?

77. If 14 men can do a piece of work in 36 days, how long would it take them if 4 men were added to their number ?

78. What must that number be which, divided by 679, gives the quotient 981, and the remainder 427 ?

79.

NEW YORK, Aug. 13, 1882.

Mr. M. T. WARD,

*Bought of T. ELSMORE & Co.,*

4 cases Strawberries, . . . .	@ \$2.25.
3 barrels Potatoes, . . . .	@ 1.75.
56 pounds Butter, . . . .	@ .30.
6 bushels Turnips, . . . .	@ 1.25.



80. The divisor is 496, the quotient 3581, and the remainder 379. What is the dividend?

81. The first complete sewing machine was patented by Elias Howe, Jr., in 1846. How many months have they been in use?

82. If 674 cords of wood cost \$7414, what will 512 cubic feet cost?

83. Mr. Cornell had 644 bushels of wheat from one field, which cost him \$184 to raise; 830 bushels from another, which cost him \$220 to raise. He sold all at 80 cts. a bushel. How much did he make from the two fields?

84. What is the entire cost of 315936 gills of milk at 20 cts. a gallon, and 14 bushels 3 pecks of beans at 5 cts. a quart?

85. If a house is valued at 4780 dollars, the lot 4 times as much as the house + 500 dollars, and the furniture at  $\frac{1}{2}$  as much as the house, what is the value of the whole?

86. A man deposited some money in a bank, and drew out \$876.50 each month for six months, when he found he had drawn out  $\frac{1}{2}$  his money. What was the amount put into the bank?

87. A man owes 20950 dollars, and gives in payment 72 horses at 150 dollars each, 25 cows at 54 dollars each, and the remainder is to be paid in monthly instalments of \$440. How many months will it take to cancel the debt?

88. If a boy should save 10 cents every week-day, and 50 cents every Sunday, how many dimes would he have in 5 years, allowing 52 weeks to a year?

89. Bought an equal number of sheep, calves, and cows, paying \$6.75 a head for the sheep, \$7.25 for the calves, and \$56 for the cows. I invested 4970 dollars. How many of each kind did I buy?

90. The divisor is 1426, quotient 4785, and the remainder 1035; what is the dividend?

91.

SPRINGFIELD, ILL., Sept. 6, 1882

Mr. O. W. KING,

To M. L. BROWN &amp; Co., Dr.

To 5 Coats, . . . . . @ \$30.00.

" 12 pr. Pants, . . . . . @ 2.50.

" 12 Vests, . . . . . @ 1.20.

" 12 Caps, . . . . . @ 1.25.

92. A had \$5480; he gave  $\frac{1}{4}$  of it to his wife,  $\frac{1}{4}$  of it to his son, and the remainder he divided equally among charitable institutions, giving each \$274. To how many institutions did he give?

93. A man bought 85 yards of print at 15 cents a yard, 163 yards at 12 cents a yard;  $\frac{1}{4}$  of it he sold at 14 cents a yard,  $\frac{1}{2}$  of it at 16 cents a yard, and the remainder at 20 cents a yard. What was his gain?

94. A and B commenced the year with equal sums of money. A doubled his money the first year, and B lost  $\frac{1}{4}$  of his. At the close of the year A had \$24000. How much had B?

95. A commenced the year with 25000 dollars. His expenses were 200 dollars a month, and at the end of the year he had cleared 3000 dollars. If his expenses had not been deducted, how much would he have had?

96. In an army consisting of 25000 men, if 8 ounces of meat were given to each daily, how many hundred-weight would they consume in a leap year?

97. The divisor is 896, the quotient 5735, the remainder 801. What is the dividend?

98. 250000 dollars was divided among 4 charitable institutions as follows: to one  $\frac{1}{4}$  of the whole + 6000 dollars, to another  $\frac{1}{4}$  of the whole — 14000 dollars, and the remainder was equally divided between the other two. What was the share of each?

99. The greater of two numbers is 48763, and the difference is 5416. What is the smaller number?

100. A House is valued at 47800 dollars, and a barn at  $\frac{1}{10}$  as much. They are insured for  $\frac{3}{4}$  their value. If they are consumed, what will be the owner's loss ?

101.

NEW YORK, July 2, 1881.

Mr. L. D. FARROL,

*Bought of L. WINSLOW & Co.*

3 crates Crockery, . . . . .	@ \$10.50.
24 Brooms, . . . . .	@ .40.
48 Brushes, . . . . .	@ .30.
20 Tubs, . . . . .	@ 1.00.

102. Divisor is 1836, the quotient 8432 and the remainder 428. What is the dividend ?

103. A man bought 272 gal. of syrup at \$1.25 per gallon, 144 gallons at \$1.40 per gallon. He sold  $\frac{1}{4}$  of it at \$1.38 per gallon,  $\frac{1}{2}$  of it at \$1.60 per gallon, and the remainder at \$1.75 per gall. What was his gain ?

104. If 16 tons of steel bars cost \$800, what will be the cost of 9 tons of steel bars ?

105. The sum of two numbers is 45680, and the difference is 12360. What are the numbers ?

106. A had \$36000. 9 times  $\frac{1}{3}$  of his money was  $\frac{1}{2}$  of B's. How much had B ?

107. What is the entire cost of 2 sq. miles of land @ \$75 an acre, and 80 acres at \$60.75 an acre ?

108. A man bought 3 lots, each 25 feet front, and erected on them 4 houses, costing 3375 dollars each. The entire amount expended was 19875 dollars. What was the price of the land per foot ?

109. A man, in repairing his house, paid 75 dollars for calcimining, twice as much for papering, and 3 times as much for painting as for papering and calcimining. How much did he expend ?

110. How many strokes does a clock make in a year ?

111. If 24 men can dig a ditch in 48 days, by working 8

hours a day, how many days would it take them if they worked 12 hours a day?

112.

MORRIS, April 18, 1878.

Mr. EZRA JOHNSON,

To DWINDLE & BRO. Dr.

To 25 yds. Cotton, . . . . @ \$ .10.

" 100 papers Pins, . . . . @ \$ .07.

" 100 papers Needles, . . . . @ \$ .08.

" 50 Thimbles, . . . . @ \$ .03.

" 48 Skeins Yarn, . . . . @ \$ .25.

113. A man bought 120 bushels of wheat, at 90 cents a bushel, 450 bushels at 85 cents a bushel; he sold  $\frac{1}{3}$  of it, at 90 cents a bushel,  $\frac{1}{3}$  of it at 80 cents a bushel, and the remainder at 95 cents a bushel. Did he gain or lose, and how much?

114. The product is 66636, the multiplicand is 1851; give multiplier.

115. If a cistern of a capacity of 238 gallons, is receiving from 3 pipes respectively 10, 11, and 12 gallons an hour, and discharging from two pipes respectively 7 and 9 gallons an hour, in how many hours will the cistern be filled?

116. A man invested 4800 dollars in corn at 50 cents per bushel, twice as much in oats at 80 cents a bushel, and 3 times as much in wheat at 1 dollar a bushel. How many bushels did he buy in all?

117. The difference between two numbers is 985; the less number is 1826. What is the greater?

118. 45000 dollars is 3 times as much as a man paid for a house and lot, and is  $\frac{1}{4}$  of what he paid for a store. What did he pay for both?

119. A man owning a coal yard, bargained for a house and lot worth 6720 dollars, agreeing to pay each year 28 tons of coal at a value of 12 dollars a ton. How many years would be required to pay for it?

120. In a flock of 600 sheep,  $\frac{1}{4}$  were destroyed,  $\frac{1}{4}$  of the remainder were sold at \$6.75 each, and the rest at \$7.25 each. What was the amount realized from the flock?

121. A owned a ship valued at 40000 dollars, and cargo at 80000 dollars. It was lost at sea, and he received  $\frac{3}{4}$  the entire value for insurance. What did he lose?

122. At 12 cents a pound, how many pounds of sugar can you buy for 24 tons of hay at 10 dollars per ton?

123.

COLUMBUS, Ohio, March 20, 1882.

Mr. S. M. BOWMAN,

*Bought of S. D. SILVER & Co.,*

24 pr. Men's Boots, . . . . . @ \$7.30.

36 pr. Boy's Shoes, . . . . . @ 1.50.

48 pr. Ladies' Slippers, . . . . . @ 1.25.

36 pr. Child's Shoes, . . . . . @ 1.75.

124. The sum of two numbers is 458763, their difference 64821. What are the numbers?

125. A man bought 2 kegs of molasses, containing 25 gallons each at 80 cents per gallon;  $\frac{1}{4}$  of it leaked out, and he sold the remainder at 25 cents per qt. What was his gain or loss?

126. If 80 acres of land are worth 6320 dollars, what is the value of 675 acres?

127. A man bought a farm, and paid 4000 dollars for stock, which was  $\frac{1}{4}$  of what the farm cost him. What did he pay for both?

128. I bought 2 barrels of vinegar, at \$9.45 per barrel; for what must I sell it per quart to gain on the whole \$6.30?

129. A man invested 48000 dollars in wheat, at 80 cts. per bushel;  $\frac{1}{4}$  as much in corn, at 60 cts. per bushel; and  $\frac{1}{4}$  as much in oats, at 50 cts. per bushel. How many bushels of grain did he buy?

130. What is the difference in minutes between 21 days, 12 hours long, and 25 days that are 10 hours long?

131. If a man should give to his son a dime every week-day, and one dollar every Sabbath, how many dollars would he have at the end of 52 weeks, provided none of it had been used ?

132. Two travelers start at the same time, one from Boston, and the other from Washington, and travel toward each other; one at the rate of 7, and the other 9 miles an hour. The distance being 452 miles, in how many hours will they meet ?

133. A rabbit was a certain distance ahead of a dog, and ran at the rate of 60 feet a minute; the dog in pursuit ran at the rate of 70 feet a minute, and caught the rabbit in one hour. How many feet ahead of the dog was the rabbit at the start ?

134. The difference between two numbers is 785; the less is 5836. What is the greater ?

135.

CINCINNATI, June 6, 1882.

Mr. G. L. THOMPSON,

*Bought of J. LYMAN & Co.,*

75 lbs. Flour, . . . . . @ \$.05.

60 lbs. Sugar, . . . . . @ .12.

12 lbs. Tea, . . . . . @ 1.25.

5 lbs. Raisins, . . . . . @ .25.

12 bushels Potatoes, . . . . @ 1.25.

136. A lady bought 84 yards of ribbon at 50 cts. a yard, 96 yards at 75 cts. a yard; she sold  $\frac{1}{2}$  of it at 80 cts. a yard,  $\frac{1}{4}$  at \$1 a yard, and what was then left at \$1.25 a yard. What was her gain ?

137. If 142 cords of wood cost 1562 dollars, what will be the cost of 72 cords ?

138. A bookkeeper's salary was 1200 dollars a year. He drew 125 dollars a month. How much was he indebted to the firm at the close of the year ?

139. How many times can a two-quart can be filled from a tierce containing 42 gallons of oil ?

140. A grocer bought 40 boxes of lemons, each containing 12 dozen, at 4 dollars a box, and sold them @ 4 cents apiece. What was his gain?

141. What number, multiplied by 493, will equal 934728?

142. Bought at the rate of 10 cents per pound 75 barrels of pork, each containing 200 pounds. I sold it at the rate of 8 cts. per pound. What was my entire loss?

143. Bought, in St. Louis, 150 barrels of flour, at \$6.50 per barrel; paid 75 dollars for transportation, and sold it all for 1000 dollars. Did I gain or lose, and how much?

144. If 4 boys earn \$27 in excavating 27 cubic yards of earth, how much is each boy's share, if they excavate 2700 cubic yards?

145. A man bought 5 cubic yards of a mine for \$50, and sold it for \$56.70. How many yards must he speculate in, at the same rate, to make \$10050?

146. I sell 16 yards of cloth at \$2.20 a yard, for which I paid \$1.88. How many yards must I sell, at the same rate, to make \$19.20?

147. A man having \$84600, gave  $\frac{1}{3}$  of it to his wife,  $\frac{1}{4}$  of it to his son, and the remainder he divided equally among his daughters, giving each \$5875. How many daughters had he?

148. A man left a fortune of \$10428 as follows:  $\frac{1}{3}$  of it to his wife,  $\frac{1}{4}$  of the remainder to his son, and what was then remaining was to be divided equally between two daughters. What was each daughter's portion?

149. A man in building a house paid 1200 dollars for labor, and twice as much for material. For the lot he paid 3 times as much as for the house. What must be his selling price to gain 1250 dollars?

150. A man bought 3 horses at 175 dollars each, 15 cows at 47 dollars each, 20 hogs at \$7.50 each. He paid 1200

dollars in cash, and the remainder in broadcloth at 9 dollars per yard. How many yards of broadcloth did it require to complete the payment?

### APOTHECARIES' WEIGHT.

1. In 1 lb. how many scruples? In 5 lbs.?
2. In 3 drams how many grains? In 17? In 23?
3. In 192 drams how many pounds? In 672 drams?  
In 480 drams?
4. Reduce 288 oz. to pounds. 4032 oz. 32256 oz.
5. Reduce 864 scruples to pounds. 1728 sc. 3456 sc.
6. Reduce 120 dr. to oz. 640 dr. 88 dr. 96 dr.
7. How many drams in 14400 gr.? In 43200 gr.?
8. How many pounds in 28800 gr.? In 57600 gr.?
9. How many pounds in 552960 gr.? In 1105920 gr.?
10. In 3 lbs. 2 dr. how many gr.? In 8 dr. 1 sc.?
11. In 16 sc. how many gr.? In 24 sc.?
12. How many pounds in 12960 prescriptions, each containing 4 gr.?
13. If an invalid takes 2 grains of quinine 4 times a day, for 60 days, how much will the bill be, at \$14.40 an ounce?

### TROY WEIGHT.

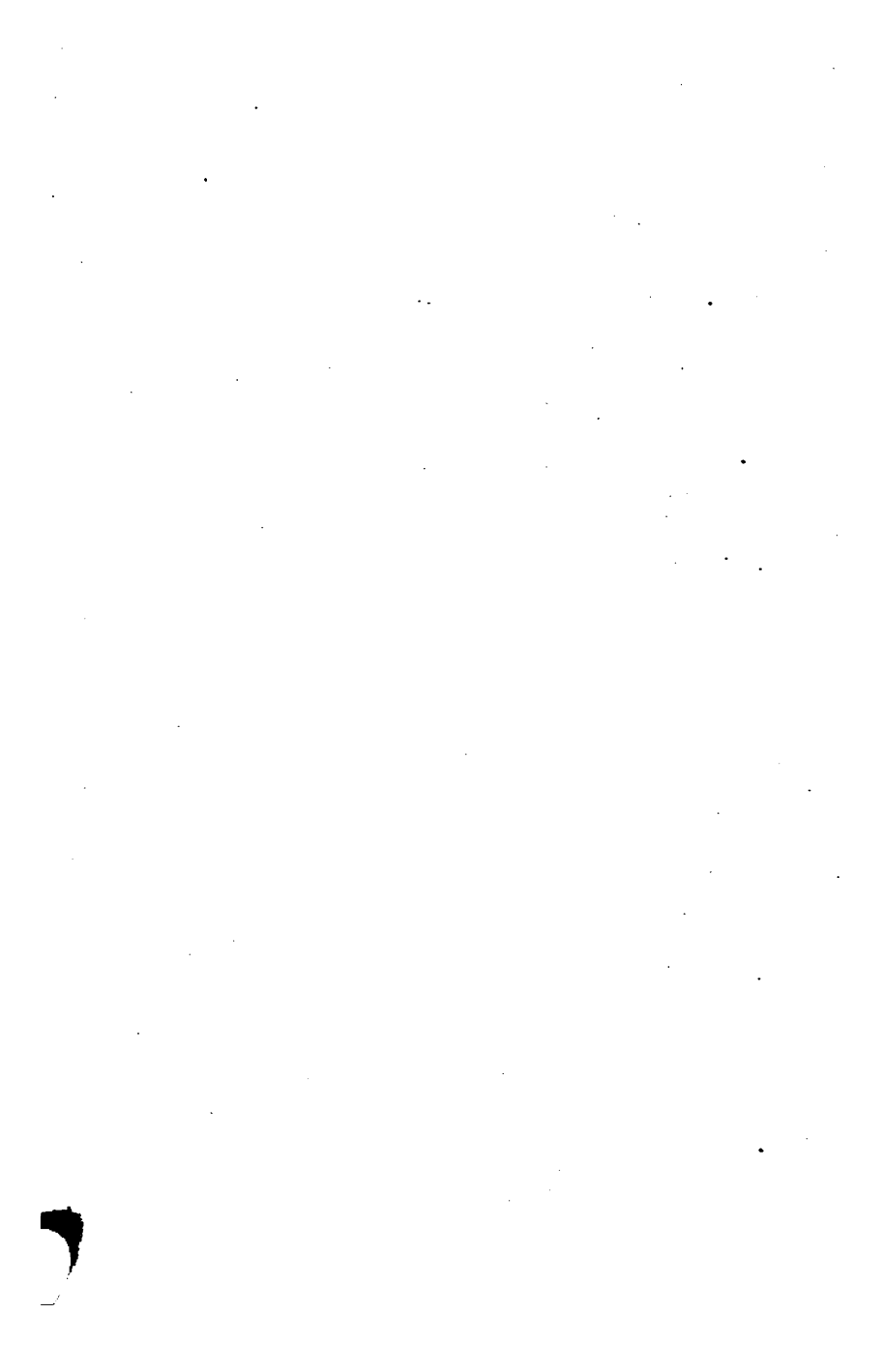
1. In 1 pound how many grains? In 6 pounds? In 7 pounds? In 13 pounds? In 15 pounds?
2. In one ounce how many grains? In 5 ounces? In 7 ounces? In 14 ounces? In 11 ounces?
3. In 5760 grains how many lbs.? In 11520 gr.? In 23040 gr.? In 28800 gr.? In 34560 gr.?

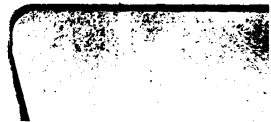


4. Reduce 400 pwt. to oz. 460 pwt. 320 pwt.
5. Reduce 720 pwt. to pounds. 1440 pwt. 2880 pwt.
6. What is the value of 3 oz. of pure gold, if 1 oz. is worth \$20.67? Of 7 oz.? Of 11 oz.?
7. What is the value of 3 oz. of pure silver, if one oz. is worth \$1.38? Of 7 oz.? Of 15 oz.?
8. A gold dollar weighs 1 pwt. What is the weight of 6 dollars? Of 60 dollars?









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